

**IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF TEXAS
GALVESTON DIVISION**

STATE OF TEXAS, et al.

Plaintiffs,

v.

JOSEPH R. BIDEN, JR., in his official
capacity as President of the United States, et
al.

Defendants.

Civ. Action No. 3:21-cv-00065

**BRIEF OF TRANSCANADA KEYSTONE PIPELINE, L.P.
AND TC ENERGY CORPORATION
AS *AMICUS CURIAE* IN SUPPORT OF DEFENDANTS AS TO MOOTNESS**

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Statement of Interest of *Amici Curiae*

TransCanada Keystone Pipeline, LP is a Delaware limited partnership that is wholly owned, indirectly, by TC Energy Corporation, a Canadian public company organized under the laws of Canada (hereafter jointly “TC Energy”). TC Energy was the sponsor of the Keystone XL Pipeline Project (“Project” or “KXLP”), and the holder of the Presidential permit that President Biden revoked on January 20, 2021—the event that gives rise to this lawsuit. TC Energy agrees with the States that revocation of the Presidential permit was unlawful. But the States’ challenge to that action is now definitively moot. TC Energy submits this amicus brief to apprise the Court of recent activities pertaining to the Project that demonstrate why this is so.

The arguments raised in opposition to that motion are predicated on claims that the Project is an “existing” one, and that the relief sought in this lawsuit would, if granted, “revive” KXLP. Texas Opp’n at 2, 6. *See also* Br. of Gov’t of Alberta at 24 (stating that such relief “would support project financing and the KXLP’s ultimate construction”). These claims, in turn, rely on the fact that the cross-border segment of the Project is already constructed and thus, the argument runs, this segment remains available for future use, either by TC Energy or some other entity to transport Canadian oil into the United States. Texas Opp’n at 4-5, 9. As TC Energy explains in detail below, however, the Project has been definitively terminated and TC Energy has taken numerous steps to effectuate that termination.

The most recent of these steps include obtaining state and federal approvals to remove the 1.2 mile border-crossing segment of the pipeline. Activities to remove the pipeline have commenced and will be completed by November. TC Energy also has relinquished a number of critical approvals it had obtained for the Project, including all of the federal rights-of-ways necessary for construction on federal lands in Montana, save for the one right-of-way tract that

TC Energy must retain until the border-crossing segment is removed. These and other actions, described in greater detail below, confirm that KXLP is, in fact, “dead,” *id.* at 7, and that, even if this Court were to invalidate President Biden’s revocation of the Presidential permit for the Project, there would be no KXLP to be constructed or taken over by another company. TC Energy’s actions also illustrate the extraordinary—and unfounded—speculation that underlies the claim that mere invalidation of President Biden’s revocation decision will somehow induce another entity to undertake the complex and lengthy process of commercializing, financing, developing and permitting a new project from scratch.

In order to place the import of its actions in proper context, TC Energy first provides an overview of the process it undertook to construct KXLP in the United States. TC Energy then summarizes the steps it has taken to terminate the Project.

BACKGROUND

1. The Approvals TC Energy Obtained And Other Actions It Took To Build KXLP.

Oil pipeline construction is subject to regulation at the federal, state, and even local level. As a result, TC Energy had to obtain many permits and approvals in addition to a Presidential permit before it could construct and operate KXLP. Many of these permitting processes were lengthy, with extensive review of environmental and other public interest factors, and multiple public hearings and opportunity for public comment, followed by judicial review of the final permitting decision. As a result, TC Energy spent more than a decade seeking both a Presidential permit and the federal and state permits and approvals needed to construct and operate KXLP.

a. The State Approvals

At the state level, TC Energy had to obtain permission from agencies in Montana, South Dakota, and Nebraska. In South Dakota, the Public Utilities Commission (“PUC”) issued a permit on June 29, 2010, authorizing construction and operation of KXLP, subject to certain

terms and conditions.¹ State law required a subsequent certification that the Project continued to meet those terms and conditions,² and that certification was challenged by pipeline opponents, who were allowed to intervene in the certification proceeding.³ Following a lengthy evidentiary hearing, the PUC accepted TC Energy's certification and authorized construction "subject to the provisions" in the initial permit.⁴ One of those provisions states that the permit "shall not be transferable without the approval of the" PUC.⁵ The PUC's acceptance of the certification was appealed to the South Dakota Supreme Court, which ultimately dismissed the appeal.⁶

In Montana, the Department of Environmental Quality ("DEQ") issued a "Certificate of compliance" on March 30, 2012, approving "the design, location, construction, operation, maintenance, and decommissioning of the Keystone XL pipeline," in conformance with certain conditions it imposed.⁷ One of those conditions is that "construction of the pipeline must be

¹ Pub. Util. Comm'n of S.D., *In re Application By TransCanada Keystone Pipeline, LP For A Permit Under The South Dakota Energy Conversion And Transmission Facilities Act To Construct The Keystone XL Project*, No. HP09-001, Amended Final Decision and Order at 23, ¶ 4 (June 29, 2010) ("2010 PUC Order"), <https://puc.sd.gov/commission/orders/hydrocarbonpipeline/2010/hp09-001c.pdf>.

² S.D. Codified Laws § 49-41B-27.

³ Pub. Util. Comm'n of S.D., *In re Petition of TransCanada Keystone Pipeline, LP for Order Accepting Certification of Permit Issued in Docket HP09-001 to Construct the Keystone XL Pipeline*, No. HP14-001, Final Decision and Order Finding Certification Valid And Accepting Certification, at 1-9 (Jan. 21, 2016) ("2016 PUC Order"), <https://puc.sd.gov/commission/orders/hydrocarbonpipeline/2016/hp14-001final.pdf>.

⁴ 2016 PUC Order, at 26.

⁵ 2010 PUC Order at 25 (Condition 4).

⁶ *In re PUC Docket HP 14-0001*, 2018 S.D. 44, 914 N.W.2d 550.

⁷ Mont. Dep't of Env't. Quality, *In re Application of TransCanada Keystone Pipeline, LP (Keystone) for a Certificate of Compliance under the Major Facility Siting Act*, Findings Necessary for Certification and Determination, at 57 (Mar. 30, 2012) ("2012 DEQ Order"), http://deq.mt.gov/Portals/112/DEQAdmin/MFS/Documents/KXL_Cert_Final_Signed.PDF.

completed within ten years of the date of this Certificate”—March 30, 2022—unless DEQ grants an extension.⁸

In Nebraska, the Public Service Commission (“PSC”) held meetings throughout the state to receive public comment, then held an evidentiary hearing to determine whether to approve the proposed pipeline route through Nebraska.⁹ On November 20, 2017, the PSC found the project to be in the public interest, but approved an alternative route from the one proposed by TC Energy.¹⁰ Pipeline opponents appealed the PSC’s decision to the Nebraska Supreme Court, which affirmed.¹¹

b. The Federal Approvals

At the federal level, TC Energy had to obtain a Presidential permit, because KXLP would cross the international border with Canada. TC Energy first applied for such a permit in September 2008. Following years of inaction, Congress passed a law in December 2011 that directed the President to grant a Presidential permit for KXLP within 60 days, unless he found that the Project would not serve the national interest. *See Temporary Payroll Tax Cut Continuation Act of 2011*, § 501(a), (b)(1), 125 Stat. 1280, 1289 (2011). President Obama denied

⁸ 2012 DEQ Order at 55 (Condition B).

⁹ *See In re Application No. OP-0003*, 932 N.W.2d 653, 662-72 (Neb. 2019).

¹⁰ *Id.* at 672-73.

¹¹ *Id.* at 692.

the permit, saying that he did not have enough information.¹² In May 2012, TC Energy submitted a new application for a Presidential permit, which the State Department denied in 2015.¹³

In January 2017, President Trump invited TC Energy to apply again, and the State Department granted the permit two months later.¹⁴ Opponents of KXLP filed suit in Montana, and the District Court vacated the State Department's decision and enjoined TC Energy from constructing KXLP until the Department prepared a supplemental environmental impact statement under the National Environmental Policy Act ("NEPA"), 42 U.S.C. § 4321, *et. seq.*¹⁵ In March 2019, President Trump issued a new permit for KXLP, and that permit, too, was promptly challenged by Project opponents.¹⁶

In addition to a Presidential permit, TC Energy had to obtain a right-of-way grant from the Bureau of Land Management ("BLM") under the Federal Land Policy Management Act of 1976, 43 U.S.C. § 1761, and a Temporary Use Permit under the Mineral Leasing Act, 30 U.S.C. § 185, because the pipeline would cross approximately 46 miles of federal land in Montana. Before issuing the right-of-way grant, BLM had to prepare an environmental review under NEPA, consult with the Fish and Wildlife Service (FWS) under the Endangered Species Act

¹² Dep't of State, *Record of Decision and National Interest Determination, TransCanada Keystone Pipeline, L.P. Application for Presidential Permit*, at 8 (Nov. 3, 2015) ("2015 State Dep't ROD"), <https://2012-keystonepipeline-xl.state.gov/documents/organization/249450.pdf>.

¹³ 2015 State Dep't ROD, at 2.

¹⁴ See Dep't of State, *Record of Decision and National Interest Determination, TransCanada Keystone Pipeline, L.P. Application for Presidential Permit*, at 3 (Mar. 23, 2017) ("2017 State Dep't ROD"), <https://2017-2021.state.gov/wp-content/uploads/2019/02/Record-of-Decision-and-National-Interest-Determination.pdf>.

¹⁵ *Indigenous Env't Network v. U.S. Dep't of State*, 347 F. Supp. 3d 561, 591 (D. Mont. 2018).

¹⁶ See *Indigenous Env't Network v. Trump*, 428 F. Supp. 3d 296 (D. Mont. 2019) ("*IEN*"); *Rosebud Sioux Tribe v. Trump*, 428 F. Supp. 3d 282 (D. Mont. 2019). TC Energy and the government both argued that the challenge lacked merit.

(ESA), 16 U.S.C. § 1531, *et. seq.*, and consult with tribal officials and federal and state historical preservation agencies under the National Historic Preservation Act, 54 U.S.C. § 306108.¹⁷ After completing those reviews and consultations, BLM granted the right-of-way on January 22, 2020.¹⁸

As a result of the inter-agency consultation leading to the BLM right-of-way grant, TC Energy was permitted to incidentally “take” threatened American burying beetles in connection with the construction, operation, and repair of KXLP on the BLM land.¹⁹ In order to incidentally take such beetles outside of federal lands and federal wetlands, however, TC Energy had to apply to the FWS for an Incidental Take Permit under ESA. The FWS granted that permit on January 8, 2021.²⁰

In addition, in order to construct the segments of the pipeline that cross wetlands or navigable waters, TC Energy also needed a permit under section 404 of the Clean Water Act, 33

¹⁷ See U.S. Dept. of Interior, Bureau of Land Management, *Record of Decision, Keystone XL Pipeline Project Decision to Grant Right-of-Way and Temporary Use Permit on Federally-Administered Land*, at 1-5 (Jan. 22, 2020), https://eplanning.blm.gov/public_projects/nepa/1503435/20011555/250015801/Keystone_ROD_Signed.pdf.

¹⁸ Although TC Energy complied with all requirements for obtaining a right-of-way grant, BLM’s approval was challenged by Project opponents. See *Bold All. Ctr. for Biological Diversity v. U.S. Dep’t of Interior*, No. 4:20-cv-00059-BMM-JTJ, Doc. 1 (D. Mont. July 14, 2020); *The Assiniboine and Sioux Tribes of the Fort Peck Indian Reservation v. U.S. Dept. of Interior*, No. 4:20-00044-BMM-JTJ, Doc. 1 (May 29, 2020); *Indigenous Env’t Network v. Trump*, No. 4:19-cv-0028-BMM, Doc. 1 (D. Mont. Apr. 5, 2019).

¹⁹ U.S. Fish and Wildlife Serv., *Biological Opinion on the Effects of the Proposed Keystone XL Pipeline to the Federally Endangered American Burying Beetle* (Dec. 23, 2019), https://eplanning.blm.gov/public_projects/nepa/1503435/20011541/250015783/POD_Appendix_U-2__Biological_Opinion_508.pdf. Without a biological opinion and the Incidental Take Permit that TC Energy obtained, any killing of this threatened species would be a crime, subject to fines or imprisonment. See 16 U.S.C. § 1540(a), (b).

²⁰ Decl. of Meera Kothari, ¶ 11, attached hereto as Attachment 1 (“Kothari Decl.”). This declaration was prepared for a Status Report that TC Energy filed in *Indigenous Environmental Network v. Trump*, No. 4:19-cv-0028-BMM, Doc. 174 (D. Mont. Aug. 4, 2021).

U.S.C. § 1344, in the form of a nationwide permit or an individual permit from the Army Corps of Engineers (“Corps”). TC Energy had planned to rely on Nationwide Permit 12, a nationwide permit issued by the Corps to authorize construction of utility lines in U.S. waters if the utility satisfies many conditions to ensure that the authorized activities will have no more than minimal adverse environmental effect. *See* 82 Fed. Reg. 1860, 1985 (Jan. 6, 2017). However, opponents of the Project sued and obtained an order vacating Nationwide Permit 12 and enjoining its use for construction of Keystone XL.²¹

TC Energy appealed, but also applied for an individual Section 404 permit for Keystone XL in an attempt to get permission from the Corps to begin construction of segments that cross wetlands and navigable waters.²² Individual Section 404 permits require a lengthy and “costly review process.” *Nat’l Ass’n of Home Builders v. U.S. Army Corps of Eng’rs*, 663 F.3d. 470, 472 (D.C. Cir. 2011). The governing regulations require a detailed evaluation of the probable impact, including cumulative impacts, of the proposed activity. 33 C.F.R. § 325.2. In addition, the Corps must do an environmental analysis under NEPA, and consult with the FWS under ESA. Although TC Energy met the requirements for obtaining an individual permit, and the Corps had nearly completed its review process, the Corps refrained from issuing the permit following President Biden’s Executive Order revoking the Presidential Permit for KXLP.

²¹ *N. Plains Res. Council v. U.S. Army Corps of Eng’rs*, 460 F. Supp. 3d 1030, 1049 (D. Mont. 2020). The vacatur and injunction initially applied to any new oil or gas pipeline, but the Supreme Court stayed the order as to all pipelines except KXLP. *U.S. Army Corps of Eng’rs v. N. Plains Res. Council*, 141 S. Ct. 190 (2020) (mem.). The Army Corps later issued a new Nationwide Permit 12, and the appeals brought by TC Energy and others were dismissed as moot. *N. Plains Res. Council v. U.S. Army Corps of Eng’rs*, No. 20-35412 (9th Cir. Aug. 11, 2021).

²² *See* U.S. Army Corps of Eng’rs, Omaha Dist., *Joint Notice of Permit Pending*, (Aug. 14, 2020), <https://usace.contentdm.oclc.org/utis/getfile/collection/p16021coll7/id/15088>.

c. Land Acquisition and Partial Construction

In preparation for the construction of KXLP, TC Energy also had to acquire parcels of private land. Specifically, TC Energy leased 30 sites for use as pipe yards, workforce camps, and contractor yards.²³ It also purchased 18 properties to serve as sites for pump stations for the Project.²⁴

After it obtained the BLM right-of-way, TC Energy began construction in April 2020 of the 1.2-mile segment of pipeline that crosses the U.S./Canada border. Construction of that segment was completed in May 2020.²⁵ TC Energy also constructed four of 28 planned pump stations for the pipeline.²⁶

2. TC Energy's Termination and Unwinding of KXLP

As this Court is aware, on January 20, 2021, President Biden issued an Executive Order revoking the Presidential Permit for KXLP. *See* 86 Fed. Reg. 7037, 7041 (Jan. 25, 2021). Later that same day, TC Energy announced that, in light of the revocation of the permit, “advancement of the [Keystone XL] project will be suspended.”²⁷ The company further stated that it would review the President’s decision, “assess its implications, and consider its options.”²⁸

²³ Kothari Decl. ¶ 7.

²⁴ *Id.* ¶ 10.

²⁵ *See Indigenous Env't Network v. Trump*, No. 4:19-cv-0028-BMM, Doc. 147 (D. Mont. Oct. 16, 2020).

²⁶ Kothari Decl. ¶ 10.

²⁷ *See* News Release, TC Energy, *TC Energy Disappointed with Expected Executive Action Revoking Keystone XL Presidential Permit* (Jan. 20, 2021), <https://www.tcenergy.com/announcements/2021-01-20-tc-energy-disappointed-with-expected-executive-action-revoking-keystone-xl-presidential-permit/>.

²⁸ *Id.*

On May 3, 2021, TC Energy advised the Corps that, in light of the suspension of the Project, it needed more time to make a final decision about the Project's future. The following day, the Corps advised that it had deemed TC Energy's individual permit application to be administratively withdrawn.²⁹

On June 9, 2021, TC Energy announced that, "after a comprehensive review of its options," it had "terminated the Keystone XL Pipeline Project."³⁰ TC Energy explained that it would "coordinate with regulators, stakeholders and Indigenous groups to meet its environmental and regulatory commitments and ensure a safe termination of and exit from the Project."³¹ That same day, TC Energy filed a status report in the *IEN* case stating that it "will not pursue any permits for the Project, nor will it perform any construction activities in furtherance of the Project now or at any time in the future."³²

In June 2021 an agreement was reached with Alberta, terminating its rights and obligations with respect to the Project, save for rights to receive proceeds from the liquidation of certain KXLP assets.³³ The financing arrangements for the Project subsequently terminated.³⁴

²⁹ Kothari Decl. ¶ 12.

³⁰ News Release, TC Energy, *TC Energy Confirms Termination of the Keystone XL Pipeline Project*, (June 9, 2021), <https://www.tcenergy.com/announcements/2021-06-09-tc-energy-confirms-termination-of-keystone-xl-pipeline-project/>

³¹ *Id.*

³² TC Energy Corporation and TransCanada Keystone Pipeline, LP's Notice Regarding Termination of Keystone XL Pipeline, *Indigenous Env't Network v. Trump*, No. 4:19-cv-00028-BMM, Doc. 167, at 3 (D. Mont. June 9, 2021).

³³ TC Energy, *Quarterly Report to Shareholders*, at 5 (July 29, 2021), <https://www.tcenergy.com/siteassets/pdfs/investors/reports-and-filings/annual-and-quarterly-reports/2021/tc-2021-q2-quarterly-report.pdf>.

³⁴ *Id.*

On July 12, 2021, TC Energy advised the FWS of its intent to relinquish the “Incidental Take Permit” it had obtained for the Project.³⁵ By letter dated July 26, 2021, the FWS cancelled the permit.³⁶

At approximately the same time, TC Energy began discussions with BLM concerning the decommissioning of the cross-border segment and relinquishment of the BLM rights-of-way.³⁷ The application TC Energy had submitted for the BLM right-of-way provided that, subject to BLM’s “agreement,” TC Energy can decommission the Project either by “abandoning the pipeline in place and removing pump stations or removing the pipeline from the ground.”³⁸ TC Energy sought approval for removal of the pipeline, consistent with the terms of the Presidential permit.³⁹

On August 31, 2021, the BLM approved TC Energy’s proposal and authorized removal of the buried pipeline pursuant to the decommissioning plan and additional stipulations imposed by BLM.⁴⁰ Additionally, on September 2, 2021, BLM approved TC Energy’s request to relinquish its right-of-way and temporary use permit over federal lands beyond the segment of

³⁵ Kothari Decl. ¶ 11.

³⁶ *Id.*

³⁷ *Id.* ¶ 4.

³⁸ Kothari Decl., Exh. A at 2.

³⁹ 84 Fed. Reg. 13,101, 13,102 (Apr. 3, 2019) (Article 3).

⁴⁰ See TC Energy Corporation and TransCanada Keystone Pipeline, LP’s Status Report, *Indigenous Env’t Network v. Trump*, No. 4:19-cv-0028-BMM, Doc. 176 (D. Mont. Sept. 17, 2021), at 1, attached hereto as Attachment 2.

land at the international border.⁴¹ The next day, the Montana DEQ also approved TC Energy's decommissioning plan.⁴²

Following these approvals, TC Energy engaged a contractor to perform the work. Removal activities have commenced and the 1.2 mile border-crossing segment is expected to be completely removed by November, 2021. Once the removal is finished and the land has been restored in accordance with the decommissioning plan and BLM stipulations, TC Energy will relinquish the last portion of its BLM right-of-way, which authorizes use of approximately 0.93 miles of federal land at the international border.⁴³

In addition to its decision to remove the 1.2-mile border segment, TC Energy has taken a number of other actions to permanently unwind KXLP. As of August 4, 2021, it had terminated 22 of the 30 leases for sites to serve as pipe yards, workforce camps, and contractor yards, and executed agreements providing for the return of the land to the lessors.⁴⁴ Because the other eight sites contain pipe, TC Energy is negotiating with entities interested in acquiring the pipe and the associated lease rights, including restoration of the land.⁴⁵ In addition, for 11 of the foregoing sites, TC Energy had obtained storm water pollution prevention permits from the relevant state agencies.⁴⁶ TC Energy is in the process of submitting notices of termination for all of these permits and expects that the relevant agencies will accept these notices.⁴⁷

⁴¹ *Id.*

⁴² *Id.*

⁴³ *Id.*

⁴⁴ Kothari Decl. ¶ 7.

⁴⁵ *Id.* ¶ 8.

⁴⁶ *Id.* ¶ 9.

⁴⁷ *Id.*

With respect to the 18 properties it purchased for pump stations, TC Energy built pump stations only on four parcels. As of August 4th, it had executed agreements to transfer ownership of 12 of the 14 undeveloped properties back to the original landowners, and was in the process of transferring ownership of the other two such properties – one to a private landowner and one to the State of Montana.⁴⁸ As of that same date, TC Energy was also in the process of finalizing an agreement to transfer ownership of the four constructed pump stations.⁴⁹

ARGUMENT

TC Energy submits that, in light of the foregoing facts, the litigation over the Presidential permit for KXLP is moot. TC Energy will not burden the Court with a repetition of legal citations and argument concerning the relevant standards governing mootness and redressability under Article III. As noted earlier, the arguments raised in opposition to the motion to dismiss rest on claims that, if this Court invalidates President Biden’s revocation of the Presidential permit, KXLP will likely be revived, either by TC Energy or some other entity. However, the steps TC Energy has already taken or is in the process of taking foreclose those claims.⁵⁰

First, TC Energy’s actions confirm that, after years of effort and billions of dollars in expenses, it has abandoned the Project and cannot “revive” it. The States argue that “[m]uch of the KXLP is fully constructed and could again be operated by TC Energy.” Texas Opp’n at 5.

⁴⁸ *Id.* ¶ 10.

⁴⁹ *Id.*

⁵⁰ TC Energy has moved to dismiss the *IEN* lawsuit challenging President Trump’s issuance of the permit as moot, on the ground that the Court in that case cannot grant meaningful relief. The Court denied TC Energy’s motion to dismiss for mootness based, in part, on the fact that the 1.2-mile border-crossing segment of the pipeline remained in the ground. *See Indigenous Env’t Network v. Trump*, No. 4:19-cv-00028-BMM, Doc. 166, at 7-14 (D. Mont. May 28, 2021); *see Indigenous Env’t Network v. Trump*, No. 4:19-cv-00028-BMM, Doc. 173, at 3 (D. Mont. July 30, 2021).

With respect to the portion of the pipeline in the United States, however, that is demonstrably not the case.

TC Energy is removing the 1.2-mile border-crossing segment of the pipeline. It has sold most of the properties it acquired for pump stations and is in the process of selling the rest. It has cancelled most of the leases for pipe yards, workforce camps, and contractor yards; is in the process of cancelling the rest; the materials will be sold or salvaged. It has relinquished the Incidental Take Permit from the FWS and all of the BLM rights-of-way necessary to construct on federal lands, except for one right-of-way it will relinquish once the pipe is removed and the land restored at the federal land at the border crossing. The States' contention that KXLP "is not dead" and that TC Energy "will resume the project" if this Court invalidates President Biden's revocation decision, Texas Opp'n at 7, is incorrect.

Second, the suggestion that, if this Court grants such relief, another entity will likely revive the Project rests on unfounded speculation that ignores the enormity of such an undertaking. TC Energy spent over a decade and billions of dollars developing, commercializing, financing and seeking and obtaining federal, state, and local approvals; purchasing and leasing necessary private properties; and constructing pump stations and the 1.2-mile border crossing segment of the pipeline. A new entity cannot step into TC Energy's shoes; there are no shoes left to step into.

Instead, a new entity would have to obtain the same types of authorizations TC Energy obtained. Thus, a new entity would have to obtain (1) an Incidental Take Permit and BLM rights-of-way that TC Energy has relinquished (or is in the process of relinquishing); (2) an individual permit under the CWA, or authorization to use NWP 12 (or its successor nationwide permit) to build and operate the pipeline in wetlands; (3) a permit from the South Dakota PUC, or

permission to use the permit granted to TC Energy, since that permit cannot be transferred without the PUC's permission; and (4) a Certificate of Compliance under the Montana Major Facility Siting Act, as the certificate that the Montana DEQ granted to TC Energy will expire on March 30, 2022.

That entity would also have to acquire the land necessary for pump stations; lease land for pipe yards, workforce camps, and contractor yards; and obtain storm water pollution prevention permits for the latter properties from the relevant state agencies. It would then have to build the pump stations and the entire pipeline from scratch, as TC Energy is in the process of removing the small portion of pipeline it was able to build (*i.e.*, the 1.2-mile border-crossing segment) and is in the process of selling off for salvage the few pump stations it constructed.

In short, the prospect that another entity will seek to obtain all of the necessary federal, state, and local approvals and build an 882-mile pipeline across three U.S. states from scratch is anything but a "business reality." Texas Opp'n at 7. It is unfounded speculation. As such, it cannot provide a basis for concluding that an order from this Court invalidating President Biden's revocation of the Presidential permit for KXLP will redress any of the injuries the plaintiffs will suffer as a result of the termination of the Project.

CONCLUSION

For the foregoing reasons, TC Energy respectfully submits that the Court should grant the government's motion and dismiss this suit as moot.

Date: September 22, 2021

Respectfully submitted,

By: /s/ Penny P. Reid

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CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 22 day of September 2021, a true and complete copy of the foregoing has been filed with the Clerk of the Court pursuant to the Court's electronic filing procedures, and served on counsel of record via the Court's electronic filing system.

/s/ Penny P. Reid
Penny P. Reid

Attachment 1

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Counsel for TransCanada Keystone Pipeline, LP and TC Energy Corporation

**IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF MONTANA
GREAT FALLS DIVISION**

INDIGENOUS ENVIRONMENTAL
NETWORK and NORTH COAST RIVERS
ALLIANCE,

Plaintiffs,

vs.

PRESIDENT JOSEPH R. BIDEN, et al.,

Defendants,

TRANSCANADA KEYSTONE PIPELINE,
LP, a Delaware limited partnership, and TC
ENERGY CORPORATION, a Canadian
Public company,

Defendant-Intervenors.

CV 19-28-GF-BMM

**DECLARATION OF MEERA
KOTHARI**

1. My name is Meera Kothari and I am the Project Vice-President of Liquids Projects at TransCanada Keystone Pipeline LP, a wholly owned subsidiary of TC Energy (hereafter collectively “TC Energy”). My business address is 700 Louisiana Street, Houston, Texas 77002.

2. In my role as Project Vice-President of Liquids Projects, I was responsible for development and execution of the Keystone XL Pipeline Project (“Keystone XL” or the “Project”) in the United States. As a result of TC Energy’s decision to terminate Keystone XL, I am now responsible for overseeing the disposition of sites and materials that TC Energy had acquired and developed in the United States to construct the pipeline. I am also responsible for TC Energy’s efforts to relinquish various permits and other regulatory approvals that were required to construct Keystone XL in the United States.

3. The first 0.93 miles of the 1.2-mile border crossing segment of the Project that was constructed from the U.S./Canada border traverses land within a right-of-way that the Bureau of Land Management (“BLM”) granted TC Energy for construction and operation of the Project. The remainder of the border-crossing segment is located on Montana state lands.

4. The decommissioning plan that TC Energy submitted as part of its application for the BLM right-of-way provides that, subject to BLM’s “agreement,” TC Energy can decommission the Project either by “abandoning the

pipeline in place and removing pump stations or removing the pipeline from the ground.” *See* Exh. A at 2. TC Energy is now in discussions with BLM concerning relinquishment of the right-of-way grant (which also includes a total of 43.2 miles of federal land elsewhere in Montana). TC Energy will submit a decommissioning plan to BLM that will provide for the removal of the buried pipeline, subject to (a) BLM’s approval of the plan, and (b) BLM’s monitoring of post-removal reclamation. TC Energy expects to submit its decommissioning plan by the end of August 2021.

5. If BLM does not agree to removal of the buried pipeline, TC Energy will submit a new decommissioning plan to abandon the pipeline in place. In that event, it will inject cement into the pipeline. The pipe will remain capped at both ends.

6. Thus, under either decommissioning approach, the buried pipeline will be rendered permanently unusable.

7. In addition, TC Energy leased 30 sites to use as pipe yards, workforce camps, and contractor yards for the Project. To date, it has executed agreements with the lessors to terminate 22 of those leases and return the land to the lessors.

8. Because the remaining eight sites contain pipe, TC Energy is negotiating with an entity interested in acquiring the pipe and the associated lease rights. The buyer is a pipe broker who would continue to lease the properties until

such time as the pipe is sold off, and then return the land to a condition specified by the landowner.

9. For 11 of the 30 sites referenced above, TC Energy obtained storm water pollution prevention permits from the relevant agency in each of the states in which the sites are located. TC Energy is in the process of submitting notices of termination for all of these permits and expects that the agencies will accept these notices by September.

10. TC Energy purchased 18 properties to serve as sites for pump stations for Keystone XL, and four such stations were constructed. TC Energy has thus far executed 12 of 14 agreements to transfer ownership of the properties that do not have pump stations back to the landowners. TC is in the process of transferring ownership of the other two such properties – one to a private landowner and one to the State of Montana. TC Energy is currently in the process of finalizing an agreement to transfer ownership of the four constructed pump stations. The buyer is a company that specializes in demolition and salvage and will recover and disposition materials and equipment from these sites.

11. In addition, on July 12, 2021, TC Energy advised the U.S. Fish and Wildlife Service (“FWS”) of its intent to relinquish the “incidental take permit” it obtained for the Project under the Endangered Species Act. *See* Exh. B. By letter dated July 26, 2021, the FWS cancelled the permit. Exh. C.

12. By letter dated May 4, 2021, the U.S. Army Corps of Engineers deemed TC Energy's application for an individual permit under Section 404 of the Clean Water Act to be administratively withdrawn. Exh. D.

13. TC Energy received a Certificate of Compliance under the Montana Major Facility Siting Act from the Montana Department of Environmental Quality on March 30, 2012. Exh. E at 57. That certificate expires by its terms if construction of the pipeline is not complete within 10 years of that date. *Id.* at 55. Accordingly, that certificate will lapse on March 30, 2022.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on this 4th day of August 2021.

Meera Kothari

Meera Kothari

Appendix T:
Keystone XL's Decommissioning Plan

TransCanada Keystone Pipeline, L.P. Keystone XL Pipeline

Decommissioning Plan

Project Number:

TAL-00050388-70

Submitted By:

EXP Energy Services Inc.

1300 Metropolitan Blvd.

Tallahassee, FL 32308

T: 850.385.5441

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Document Control Number:

KXL1399-EXP-EN-PLN-0097

Rev	Date (yyyy-mm-dd)	Issue	Prepared by	Checked by	Approved by	Project Manager	Client
0	2019-12-20	IFU	ALW	JAS	JAS	RG	TCPL
1	2020-01-15	IFU	ALW	JAS	JAS	RG	TCPL



Legal Notification

This Decommissioning Plan was prepared by EXP Energy Services Inc. for Keystone XL Pipeline.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. EXP Energy Services Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Acronyms and Abbreviations

CFR	Code of Federal Regulations
CMRP	Construction, Mitigation, and Reclamation Plan
DOT	United States Department of Transportation
Keystone	Keystone XL Pipeline
MEPA	Montana Environmental Policy Act
MFSA	Montana Major Facilities Siting Act
PHMSA	Pipeline and Hazardous Materials Safety Administration
Plan	Decommission Plan
PSC	Public Service Commission

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1.0 Purpose and Objective

This Decommission Plan (Plan) was prepared to outline Keystone XL Pipeline's (Keystone) process for decommissioning the pipeline and facilities constructed as part of the Keystone XL Pipeline Project (Project). Keystone anticipates that the life of the Project to be at least 50 years. However, implementation of Keystone's Integrity Management Plan, special conditions developed by PHMSA, and Keystone's operations and maintenance program, Keystone anticipates that the life of the pipeline would be much longer. At this time, Keystone has no plans for abandonment of these facilities at the end of their operational life. If eventually necessary, abandonment would proceed according to applicable federal and state regulations in place at that time.

A summary of the current Federal and state regulations that are currently applicable to the Project are provided below.

1.1 PHMSA and State Regulations

1.1.1 Pipeline and Hazardous Materials Safety Administration

The Pipeline and Hazardous Materials Safety Administration (PHMSA) is a United States Department of Transportation (DOT) agency that is responsible for developing and enforcing regulations for the safe, reliable, and environmentally sound operation of natural gas and hazardous liquid pipelines. PHMSA's current requirements that apply to the decommissioning of crude oil pipelines are provided in 49 CFR Section 195.402(c)(10) and 49 CFR 195.59.

49 CFR 195.402(c)(10) states Abandoning pipeline facilities, including safe disconnection from an operating pipeline system, purging of combustibles, and sealing abandoned facilities left in place to minimize safety and environmental hazards. For each abandoned offshore pipeline facility or each abandoned onshore pipeline facility that crosses over, under or through commercially navigable waterways the last operator of that facility must file a report upon abandonment of that facility in accordance with §195.59 of this part.

49 CFR 195.59, Abandonment or deactivation of facilities. For each abandoned offshore pipeline facility or each abandoned onshore pipeline facility that crosses over, under or through a commercially navigable waterway, the last operator of that facility must file a report upon abandonment of that facility. (a) The preferred method to submit data on pipeline facilities abandoned after October 10, 2000 is to the National Pipeline Mapping System (NPMS) in accordance with the NPMS "Standards for Pipeline and Liquefied Natural Gas Operator Submissions."...The information in the report must contain all reasonably available information related to the facility, including information in the possession of a third party. The report must contain the location, size, date, method of abandonment, and a certification that the facility has been abandoned in accordance with all applicable laws.

1.1.2 State of Montana

1.1.2.1 Montana Public Service Commission

Currently, the Montana Public Service Commission (PSC) provides oversight for intrastate natural gas pipelines. The PSC does not provide any oversight or have any enforceable regulations for crude oil pipelines.

1.1.2.2 Montana Department of Environmental Quality

The Project requires a certificate from the Montana Department of Environmental Quality (MDEQ) under the Montana Major Facilities Siting Act (MFSA), which included an environmental review under the Montana Environmental Policy Act (MEPA). The MDEQ issued a MFSA Certificate to Keystone in March 2012.

Attachment 1B - Environmental Specifications of the MFSA certificate includes the following requirements for the decommissioning or abandonment of the Project:

5.1.1 One year prior to the anticipated date for decommissioning or abandonment of the certificated facility, the Owner shall notify DEQ or its successor of the plans for decommissioning or abandonment.

5.1.2 If the method of decommissioning or abandonment required under federal law results in ground disturbing activities, Owner shall be responsible to DEQ or its successor for complying with reclamation and environmental protection standards established at the time of Project certification, including applicable provisions of these specifications or standards in affect at that time.

5.1.3 The Owner will be responsible for repairs and reclamation caused by erosion or subsidence of the right-of-way associated with the presence of the facility incurred after abandonment.

5.1.4 The standards listed in Section 3.2.1 for reclamation and revegetation shall be used to determine release of the Reclamation and Revegetation Bond, or to determine that expenditure of the Reclamation and Revegetation Bond is necessary to meet the requirements of the Certificate, unless otherwise determined by the DEQ.

2.0 Project Decommissioning

Decommissioning of a pipeline and associated facilities is the process of ending the transportation of crude oil through the pipeline and returning the Project right-of-way to conditions specified in Keystone's Construction, Mitigation, and Reclamation Plan (CMRP), as well as, in accordance with permit and landowner requirements, including the BLM ROW Grant and MFSA Certificate. The pipeline would be decommissioned by either abandoning the pipeline in place and removing pump stations or removing the pipeline from the ground.

Prior to decommissioning Keystone will arrange a pre-decommissioning meeting with the BLM Authorized Officer so that an agreement on an acceptable decommission plan is reached.

3.0 Estimated Cost to Decommission

The cost of decommissioning a pipeline and its associated facilities will depend on the resources required to complete the work, the value of any salvaged material, and the extent of remediation and reclamation work required. Keystone has provided a cost estimate to decommission and remove the pipeline and facilities and restore the right of way and facility sites on federal lands in Table 3.1. The estimated decommissioning costs of \$84,065,960 are based on 2019 dollars. This decommission plan will be updated with actual costs prior to initiating any decommissioning activities.

Table 3.1: Estimated Costs to Decommission the Keystone XL Pipeline on Federal Land

Work Description	Estimated Cost
Mobilization/Demobilization	\$2,000,000
Removal of oil and cleaning of the pipeline	\$5,000,000
Preparation of ROW	\$11,000,000
Excavation/removal of pipeline	\$17,500,000
Cutting up of pipe into transportable segments	\$15,000,000
Hauling pipe to rail transport	\$4,000,000
Rail transport/offloading to Salvage Vendor yard	\$6,000,000
Rough cleanup of ROW	\$5,000,000
Final cleanup/restoration of ROW	\$11,000,000
Maintenance of ROW until restoration accepted	\$2,000,000
Company management and 3rd party support services @ 10% of construction costs	\$7,850,000
Contingency @ 10%	\$8,635,000
Subtotal Pipeline Abandonment and Removal	<u>\$94,985,000</u>
Pipe salvage value	<u>-\$10,919,040</u>
Total Pipeline Abandonment and Removal	\$84,065,960

TC Energy

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Tel: 403-920-2000
jason_schulz@tcenergy.com



July 12, 2021

Noreen Walsh
Regional Director
Mountain-Prairie Region
U.S. Fish and Wildlife Service
134 Union Blvd., Suite 670
Lakewood, Colorado 80228

Re: Incidental Take Permit No. TE89824D-0
Effective Date: January 8, 2021

Dear Ms. Walsh:

I am writing to advise that it is the intention of TransCanada Keystone Pipeline, L.P. (Keystone), as Permittee, to relinquish the above referenced Incidental Take Permit (Permit). In that regard, Keystone represents as follows:

- Keystone did not conduct any activities covered by the Permit.
- No incidental takes occurred in respect of the Permit.
- No minimization or mitigation measures were implemented in respect of the Permit.
- There has been a material change in the status of the Keystone XL Pipeline Project, such that no future covered activities or incidental takes are anticipated. Specifically, on January 20, 2021, the President revoked the Presidential Permit for the Project. As a result, Keystone immediately suspended activities in furtherance of the Project. On June 9, 2021, TC Energy announced that the Project has been terminated.

Keystone greatly appreciates the efforts of the Service with regard to the Permit and will await the Service's confirmation of its cancellation.

Sincerely,

A handwritten signature in black ink that reads "Jason Schulz". The signature is written in a cursive, flowing style.

Jason Schulz
Director, Liquids Growth Projects and ELIR



In Reply Refer to:
FWS/IR05/IR07

United States Department of the Interior

FISH AND WILDLIFE SERVICE
134 Union Blvd
Lakewood, Colorado 80228



July 26, 2021

Mr. Jason Schultz
Director, Liquids Growth Projects and ELIR
TC Energy
450 1st Street S.W.
Calgary, Alberta T2P 5H1
Canada

Dear Mr. Schulz:

On July 12, 2021, we received your letter stating TransCanada Keystone Pipeline, L.P.'s intent to relinquish the U.S. Fish and Wildlife Service's Endangered Species Act Section 10(a)(1)(B) Incidental Take Permit (ITP, TE89824D-0, effective date January 8, 2021). The ITP authorized take of the Federally threatened American burying beetle (*Nicrophorus americanus*) associated with the construction and repairs of the Keystone XL pipeline project, as described in the Keystone XL Pipeline Habitat Conservation Plan (HCP).

We have reviewed the information provided on the status of Keystone XL pipeline project, the covered activities, incidental take, and minimization and mitigation measures. Because the covered activities and associated incidental take have not occurred and are not anticipated to occur in the future, we have determined the implementation of minimization and mitigation measures described in the HCP are not required. Based on your letter, the ITP meets the criteria required for permit relinquishment (50 CFR 13.26; 50 CFR 17.22(b)(7)). As of today's date, July 26, 2021, your ITP is canceled and incidental take of the American burying beetle is no longer authorized.

If you have any questions regarding this matter, please contact the Nebraska Ecological Services Field Office Supervisor, Mark Porath, at (308) 382-6468.

Sincerely,

ANNA MUNOZ

Digitally signed by ANNA
MUNOZ
Date: 2021.07.29 10:18:12 -06'00'

Acting Regional Director

INTERIOR REGION 5
MISSOURI BASIN
KANSAS, MONTANA*, NEBRASKA, NORTH DAKOTA,
SOUTH DAKOTA

*PARTIAL

INTERIOR REGION 7
UPPER COLORADO RIVER BASIN
COLORADO, NEW MEXICO, UTAH, WYOMING

Exhibit C



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA NE 68102-4901

May 4, 2021

Regulatory Branch

TransCanada Keystone Pipeline, LP
Attn: Meera Kothari
700 Louisiana Street
Houston, Texas 77002

Dear Ms. Kothari:

This office has received your letter dated May 3, 2021, stating that you require more time before you make a decision on the path forward for the Keystone XL Pipeline Project (Project) in light of Executive Order (EO) 13990, which revoked the previously issued Presidential Permit that is required to construct and operate the Project at the international border between Canada and the United States. In response, this office has decided to administratively withdraw your application for a Department of the Army Permit while you continue to consider your path forward. You may submit an updated application for this project in the future.

If you have any questions, please feel free to contact me by email at eric.a.laux@usace.army.mil or by phone at (402) 995-2682 or Cathy Juhas by email at catherine.d.juhas@usace.army.mil or by phone at (605) 945-3383 and reference action ID NWO-2020-01055-PIE.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric A. Laux", is positioned below the "Sincerely," text.

Eric A. Laux
Chief, Regulatory Branch

cc:
EXP (Aubele)

Exhibit D

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY

In the Matter of the Application of
TransCanada Keystone Pipeline, LP (Keystone) for a
Certificate of Compliance under the
Major Facility Siting Act.

Findings Necessary for
Certification and Determination

On December 22, 2008, TransCanada Keystone Pipeline, LP (Keystone) submitted an application to the Montana Department of Environmental Quality (DEQ) under the Major Facility Siting Act (MFSA), Section 75-20-101, *et seq.*, MCA, for a Certificate of Compliance for the TransCanada Keystone Pipeline, L.P. The Certificate of Compliance would authorize the construction, operation, and maintenance of the Montana portion of the Keystone XL Pipeline, a 36-inch-diameter crude oil pipeline and associated facilities having a total capacity of 830,000 barrels per day (bpd)¹. The pipeline would enter Montana at the United States-Canada border crossing near the Port of Morgan, Montana, and extend southeast, crossing into South Dakota about 35 miles southeast of Baker, Montana. In Montana, the length of the pipeline is approximately 285 miles. In Montana, the associated facilities include but are not limited to: six pump stations, three transmission lines, valves and associated power supplies, temporary pipe storage areas, off right-of-way access roads, contractor yards, and temporary work areas. On April 23, 2010, DEQ determined that Keystone's MFSA application was complete.

In addition to certification by the State of Montana under MFSA, Keystone also must obtain a Presidential Permit from the U.S. Department of State (DOS) before constructing the pipeline across the border between the U.S. and Canada, and a right-of-way grant from the U.S. Bureau of Land Management (BLM) before constructing the pipeline and associated facilities on BLM lands. The Montana Department of Natural Resources and Conservation (DNRC) must grant an easement for the operational right-of-way, with the approval of the Board of Land Commissioners, and issue a land use license for the construction right-of-way and other activities on state lands and waterways.

¹ On October 4, 2010 Keystone modified its application to DEQ indicating that the nominal capacity of the pipeline had been reduced to 830,000 bpd from 900,000 bpd and that maximum operating pressure had been reduced from 1,600 psig to 1,300 psig.

On April 16, 2010, DOS issued the Draft Environmental Impact Statement (DEIS). DEQ participated in the DEIS's preparation as a cooperating agency. A 78-day comment period followed. Based on comments received on the DEIS, DOS decided to prepare a Supplemental Environmental Impact Statement (SDEIS). The SDEIS was issued on April 22, 2011, and a 45-day comment period followed. The Final Environmental Impact Statement (FEIS) regarding the proposed pipeline was issued on August 26, 2011. These environmental review documents as well as Keystone's application provide the basis for the following findings.

I. Findings Required by 75-20-301, MCA

A. The Basis of the Need for the Facility:

The primary purpose and need for the Keystone XL Pipeline is to provide infrastructure necessary to transport Western Canadian Sedimentary Basin (WCSB) heavy crude oil to delivery points in Petroleum Administration for Defense District (PADD) III in response to the market demand of refineries in PADD III for heavy crude oil. The WCSB is widely accepted as having one of the largest crude oil reserves in the world. It is estimated that Canada's oil sands contain 170 to 175 billion barrels of proven oil reserves. It is projected that production of heavy crude oil in the WCSB will increase from its 2008 level of 0.9 million bpd to 2.1 million bpd by 2015 and could reach 4.4 million bpd by 2030. It is further estimated that cross-border WCSB deliveries will more than double from the current 1.2 million bpd to between 2.6 and 3.6 million bpd by 2030.

Refineries in PADD III have the capacity to refine over 5 million bpd of crude oil from more than 40 countries. The top four suppliers are Mexico (21 percent), Venezuela (17 percent), Saudi Arabia (12 percent), and Nigeria (11 percent). PADD III refinery runs are projected to grow by at least 500,000 bpd by 2020. However, crude oil imports from Mexico and Venezuela have been in steady decline and are projected to continue to drop over the next several years, from 2.9 million bpd in 2005 to about 0.8 million bpd by 2020. While the supply of crude oil from Saudi Arabia appears to be fairly stable, the remaining major PADD III suppliers face declining or uncertain production horizons. The Keystone XL Project would provide an initial capacity to transport 700,000 bpd of WCSB crude oil, with the ability to increase capacity to 830,000 bpd by

increasing pumping capacity. Increasing U.S. imports of Canadian crude oil would reduce U.S. imports of foreign oil from sources outside of North America.

The only existing pipeline that provides PADD III refineries access to WCSB crude oil is the ExxonMobil Pegasus Pipeline. This pipeline has a maximum capacity of 96,000 bpd. Thus, limited pipeline capacity continues to constrain the supply of WCSB crude oil to PADD III.

Enbridge has recently announced plans to expand its existing pipeline network to provide some capacity to carry crude oil produced in Canada to the Gulf Coast refining complex in PADD III. Enbridge's proposed Gulf Coast Access project would ship crude produced in Canada and North Dakota from Flanagan, Illinois (which is connected to Canadian crude), through a new pipeline to Cushing, Oklahoma. This line is expected to be in service by mid-2014.

From Cushing, this crude oil would then move to Houston, Texas, on the Seaway Pipeline system, in which Enbridge recently acquired a 50% interest. Enbridge proposes to reverse the flow of crude in this pipeline to carry crude from Cushing, Oklahoma, to Houston, Texas. Initial flow rates would be 150,000 bpd, rising to up to 400,000 bpd by the first quarter of 2013.

An additional purpose of the Keystone XL Pipeline is to transport WCSB heavy crude oil to the proposed tank farm in Cushing, Oklahoma, in response to the marked demand of refineries in PADD II for heavy crude oil. Keystone had firm contracts to transport 155,000 bpd of WCSB crude oil to Cushing, Oklahoma, in the existing Keystone Oil Pipeline. Keystone will transfer shipment of crude oil under those contracts to the Keystone XL Pipeline.

Finally, Keystone will be providing shippers with the opportunity to access the Keystone XL Pipeline to transport crude oil from the Williston Basin (including the Bakken field) and from PADD II to delivery points in PADDs II and III. Shippers in Montana and North Dakota have committed to transport 65,000 bpd of crude oil on the Keystone XL Pipeline using a proposed interconnection or "on-ramp" north of Baker, Montana.

B. Nature of the Probable Environmental Impacts

The environmental review documents for the Keystone XL Pipeline describe the nature of the probable environmental impacts, including cumulative effects, that would result from construction, operation, and decommissioning of the pipeline. The additional environmental analysis required by the Montana Environmental Policy Act (MEPA) was provided in the Appendix I of these documents. A summary of these impacts follows.

Greenhouse Gas Emissions

A detailed study of greenhouse gas life-cycle emissions that compared Canadian oil sands crude with other selected reference crudes was presented in the DEIS. This study included a review of recent scientific literature on greenhouse gas life-cycle emissions for Canadian oil sands crude, including extraction, upgrading, transportation, refining, and combustion.

The study's major conclusion was that, throughout its life cycle, oil sands crude, on average, produces more greenhouse gas than the crude oil it would replace in the U.S. However, the relative greenhouse gas intensity varies depending on (1) study design factors, such as the reference crudes (e.g., 2005 U.S. average crude oil, Venezuelan Bachaquero, Middle East Sour, and Mexican Heavy) selected for comparison with Canadian oil sands crudes, and the timeframe selected; and (2) study assumptions, such as the extraction method and the mix of crudes that would be transported by the pipeline.

The Keystone XL Pipeline is not likely to impact the amount of crude oil produced from the oil sands. However, for illustrative purposes, the study estimated that life-cycle U.S. greenhouse gas emissions from displacing reference crude oils with Canadian oil sands crude oils imported through the Keystone XL Pipeline would be between 3 and 21 million metric tons of carbon dioxide emissions annually. This range is equivalent to annual greenhouse gas emissions from the combustion of fuels in 588,000 to 4,061,000 passenger vehicles.

In addition, current projections suggest that the amount of energy required to extract all crude

oils is projected to increase over time due to the need to extract oil from ever deeper reservoirs using more energy intensive techniques. However, while the greenhouse gas intensity of reference crude oils may trend upward, the projections for the greenhouse gas intensity of Canadian oil sands crude oils suggests that they may stay relatively constant. Although there is some uncertainty in the trends for both reference crude oils and oil sands-derived crude oils, on balance it appears that the gap in greenhouse gas intensity may decrease over time.

Geology and Soils

Geologic Hazards: Potential geologic hazards assessed in the EIS include seismic hazards (earthquakes), landslides, or subsidence (sink holes). The route extends through relatively flat and stable areas and the potential for these events is low. The pipeline and its terminal north of Baker will not cross any known active faults with confirmed surface offsets. A system of older faults (Brockton-Froid fault system) will be crossed between the Missouri River and Circle, Montana. Some seismic activity has been recorded along this system or possibly another unrelated system northeast of the Project. During construction, land clearing could increase the risk of landslides and erosion. In Montana, landslide risk is likely to be highest between the Missouri River and the top of the bluff south of the river. Alternative routing has reduced the distance over which the pipeline will cross this area of landslide topography.

Soils and Sediments: Potential impacts to soils include soil erosion, loss of topsoil, soil compaction, soil contamination, damage to existing tile drainage systems, subsidence of soils over the trench, and permanent increases in the proportion of large rocks in the topsoil. Keystone will use construction procedures, including topsoil segregation methods, that reduce the likelihood and severity of impacts to soils and sediments and mitigate impacts to the extent practicable. In addition, DEQ will hold a reclamation and revegetation bond to ensure reclamation of the Project area. Keystone will also be required to submit and implement a Storm Water Pollution Prevention Plan pursuant to the Montana Water Quality Act, to minimize the amount of soil erosion and sediment delivery from the Project. Implementation of provisions in Keystone's Construction, Mitigation, & Reclamation Plan (CMRP) and DEQ's Environmental Specifications will reduce the amount of settling, subsidence, and piping where the pipeline crosses irrigated land. Keystone will repair damage to drainage tile systems, and will implement

measures to alleviate soil compaction in agricultural areas.

Keystone will be responsible for cleaning up spills during construction. During operation Keystone will be responsible for cleaning up spills under an Emergency Response Plan (ERP) approved by the U.S. Department of Transportation, Pipeline Hazardous Materials and Safety Administration (PHMSA) and DEQ guidance.

During reclamation, rock larger than 3 inches will be removed from the surface to approximate the number of rocks larger than 3 inches in similar settings off the construction right(s)-of-way, access roads, pipe yards, and contractor yards. Subsurface rocks may work their way to the surface of the ground at a later date.

With regard to soil temperature, heat will be transferred from the pipeline to surrounding soils. Modeling of soil temperature increases was conducted assuming a pipeline throughput of 900,000 bpd, a higher flow rate than 830,000 bpd now planned. Consequently, the results of the modeling may slightly overestimate the changes in soil temperature. The modeled increase in soil temperature is greatest near the pipeline, and the increase in soil temperature will be less at the ground surface. Predicted soil temperatures near Glasgow at the ground surface indicate that surficial soils may warm above freezing about a month earlier than if the pipeline were not present. In the fall freezing of surficial soils could be delayed by about a week. Surficial soil temperatures are not expected to vary substantially from baseline conditions from mid May through the end of October.

Along the pipeline centerline, model results for the Glasgow area indicate that, at a depth of six inches below the ground surface, soils normally frozen from mid December through mid February will remain at or above freezing. Increases in soil temperature six inches below the ground surface will diminish with distance away from the centerline with soil temperatures reaching background temperatures about 80 feet from the pipeline. This effect may be slightly more pronounced farther south in Montana.

Water Resources

Groundwater: Many of the aquifers along the route are isolated from the surface due to soil types

and rock layers above the aquifers that prevent or slow downward migration of water, and should not be affected by the Project. However, shallow or near-surface aquifers are also present along the route. Construction of the Project may result in temporary to short-term increases in suspended solids in the shallow aquifers. The risk of dewatering shallow groundwater aquifers during construction or reducing groundwater quality due to increased sediments in the water will be localized and temporary to short term.

River and Stream Crossings: In Montana surface water bodies will be crossed using one of two methods: the dry-cut method, or the horizontal directional drilling (HDD) method. The method selected will be based on the site-specific characteristics of the crossing location and the requirements of the permitting agencies as indicated in Appendix L of the Environmental Specifications.

The dry-cut method, which may involve diverting stream flow around the construction site, will result in lower increases in turbidity than the open-cut wet method proposed by Keystone.

HDD will be used by Keystone at crossings of the Milk, Missouri, and Yellowstone rivers. HDD minimizes impacts to the stream or river. Because drilling is performed below the streambed, the streambed and stream flow are not disturbed. HDD also reduces the potential that deep scour during flooding would danger pipeline integrity. However, because of the extra equipment involved, it will increase the amount of ground disturbance in upland areas adjacent to the stream or river. The risk that drilling fluids could be released into a water body during the drilling process is small. Keystone is performing additional core drilling at several of the larger stream crossings to determine if directional drilling is feasible at these crossings. Following completion of feasibility studies, DEQ will allow directional drilling in place of the dry-cut method if geologic conditions are favorable.

At all water crossings, Keystone will use vegetative buffer strips, drainage diversion structures, and sediment barriers, and will limit vegetation clearing to reduce siltation and erosion. After construction, the right-of-way will be restored and revegetated to reduce the potential for erosion of the stream bank.

Hydrostatic Test Water: Water used to pressure test the pipeline during construction will be

discharged to upland areas within the same drainage and the quality of water being discharged will be tested to verify that impacts are minimized. Keystone must obtain necessary permits from DNRC prior to diverting water for hydrostatic testing and must not harm the holders of existing water rights or the use of water reservations.

Wetlands

The Project route crosses emergent, scrub/shrub, and forested wetlands that are under the jurisdiction of U.S. Army Corps of Engineers (USACE) and applicable state agencies under the purview of the EPA (the U.S. Environmental Protection Agency) through Sections 401 and 404 of the federal Clean Water Act and the Montana Water Quality Act. Specific plans regarding wetland avoidance and minimization of impacts at selected stream crossings are included in DEQ's Environmental Specifications. The development of mitigation to compensate for the temporary or permanent wetland loss or conversion of forested to emergent wetlands and may be further developed during the 404/401 permitting process. Construction of the pipeline will affect wetlands and their functions primarily during and immediately after construction activities but permanent changes also may be possible.

Wetland vegetation communities would, in general, eventually transition back into communities that are functionally similar to those of the wetlands prior to construction. In emergent wetlands, the vegetation would typically regenerate quickly. The impact of construction on emergent wetlands would range from short term to long term in duration and be of minor magnitude. The impact during operation would be minor. In forested and scrub-shrub wetlands the effects of construction would be longer because of the period needed to regenerate a mature forest or shrub community. Trees and shrubs would not be allowed to grow in the right of way, resulting in minor to moderate impacts to those wetlands for the life of the Project. Keystone is working with each USACE district to identify wetlands and develop mitigation and compensation for conversion of forested wetlands to herbaceous wetlands.

Keystone will use construction methods that avoid or minimize impacts to wetlands. These measures include installing trench breakers and/or sealing the trench to maintain the original wetland hydrology to avoid draining wetlands, using timber mats to protect wetlands during

construction, and restoring wetland areas to a level consistent with the requirements of the applicable permits.

Terrestrial Vegetation

The Project crosses primarily grasslands and rangelands, croplands, a few riparian forest areas, developed lands, and wetlands. After construction, Keystone will restore topsoil, slopes, contours, and drainage patterns to preconstruction conditions as practicable and will reseed disturbed areas to restore vegetation cover, prevent erosion, and control noxious weeds. Keystone will control the introduction and spread of noxious weeds and pests by adhering to construction and restoration procedures recommended by local, state, and federal agencies.

Native Grasslands and Rangelands: Native mixed shrub rangelands and some grasslands will be crossed by the Project in Montana. Impacts on native rangeland would range from short to long-term. Vegetation would be established one to five years after construction and may differ from adjacent plant communities. Keystone has developed specific construction and reclamation methods for the Project in consultation with local, state, and federal agencies and local experts to ensure that sagebrush and native grasses are restored.

Upland and Riparian Forests: Clearing trees in upland and riparian forest communities will result in long-term impacts for the life of the Project, because of the length of time needed for the communities to mature and because trees would not be allowed to re-establish in the 30 foot upland permanent right-of-way. As indicated in Appendix L of the Environmental Specifications, near certain stream crossings DEQ will require that forested areas within the construction right-of-way but outside the operational right-of-way be restocked with cottonwoods. In several of these areas, the landowners have agreed to temporary fencing to help speed establishment of the newly planted cottonwoods.

Due to increased soil temperatures, enhanced emergence and initial plant growth may be detected over the pipe centerline in early to mid-spring at northern latitudes, since some plants are sensitive to increased soil temperatures during this stage of plant development. Positive or negative effects are unlikely to be measurable later in the growing season, since post-emergent plant growth is more influenced by air temperature, day length, and soil moisture than soil

temperature. While it is theoretically possible that heat from the pipeline may dehydrate soil directly above the trench, the heated trench may absorb water more rapidly than adjacent soils. The additional water in the trench soil profile will likely cool the soil more rapidly than in adjacent areas. Ultimately, the thermal effect of the pipeline on plant growth will be secondary to other environmental conditions. Although heat generated by the pipeline will affect nearby soils and potentially vegetation, land management practices will greatly influence any measurable effect of the pipeline. Those practices resulting in greater soil shading from plant cover may moderate pipeline-generated soil temperature increases.

Wildlife

Big game animals, small game animals and furbearers, waterfowl and game birds, and other nongame animals use habitats in and around the area crossed by the Keystone XL Pipeline. Construction will result in the temporary and permanent loss and alteration of habitats that provide foraging, cover, and breeding habitats for wildlife. Most habitat loss will be temporary as vegetation cover will be re-established after construction and will be a small percentage of the habitats available throughout the region crossed by the Project. Loss of shrublands and wooded habitats could be long term (from 5 to 20 years or more); however, and trees and tall shrubs will not be allowed to re-establish over the pipeline for inspection and integrity purposes.

Aboveground facilities will result in some permanent habitat loss. Power lines to pump stations can provide vantage perches for raptors that lead to increased predation on ground nesting birds and small mammals.

Construction will produce short-term barriers to wildlife movement, direct and indirect mortality, and reduced survival and reproduction. Habitat alteration and fragmentation caused by construction of the pipeline and its right-of-way may reduce habitat suitability and use by wildlife. With the measures identified in DEQ's Environmental Specifications and Keystone's CMRP, disturbance from construction activities may have moderate local effects on wildlife, if important remnant habitats are crossed or if sensitive breeding or overwintering periods are not avoided.

Keystone is working with DEQ, Montana Fish, Wildlife and Parks (FWP), and BLM to

minimize impacts to wildlife during sensitive breeding periods. Measures developed to minimize impacts to wildlife include development of a Migratory Bird Conservation Plan in consultation with the U.S. Fish and Wildlife Service (USFWS), removal of litter and garbage that could attract wildlife, control of unauthorized off-road vehicle access to the construction right-of-way, and reclamation of native range with native seed mixes. DEQ's Environmental Specifications contain measures to protect wintering big game animals, sage-grouse and sharp-tailed grouse during sensitive wintering breeding periods, and species of special concern to the state. Keystone will provide compensatory mitigation when construction of the pipeline will occur near greater sage-grouse leks and important greater sage-grouse habitat. Overall, the impact of construction to wildlife is expected to be minor and will be primarily temporary to short term. Normal Project operation will result in negligible effects to wildlife.

Fisheries Resources

The route will cross rivers and streams, including perennial and intermittent streams that support recreational fisheries. Most potential impacts to fisheries resources will occur during construction and will be temporary to short term. Impacts resulting from construction of stream crossings include siltation, sedimentation, bank erosion, sediment deposition, short-term delays in movements of fish, and transport and spread of aquatic invasive animals and plants. Keystone will minimize vehicle contact with surface waters and clean equipment to prevent transportation of aquatic invasive animals and plants on equipment.

In Montana, smaller streams will be crossed using dry trenching methods, HDD, or horizontal boring if water is present. Using these methods will reduce sedimentation and turbidity impacts normally associated with working in streams when water is still flowing through the stream bed. Construction at stream crossings can result in destruction of fish that do not avoid the construction area and can release fine sediments during construction through flowing waters or after the flow is returned to the stream bed. Sediment will be transported downstream and could affect fish, other aquatic life, and aquatic habitats through either direct exposure or smothering. Most stream crossings will be completed in less than two days. Grading and disturbance to waterbody banks will be minimized such that resulting stream bed disturbance and sediment impacts will be temporary and minor.

The Milk, Missouri, and Yellowstone rivers will be crossed using the HDD method, which would install the pipeline well below the active riverbed. As a result, direct disturbance to the riverbed, fish, aquatic animals and plants, and river banks will be avoided. Keystone has developed site-specific plans for HDD crossings and will develop site-specific contingency plans, including preventative measures and a spill response plan, to address unintended releases of drilling fluids. Additional geotechnical work is ongoing at several other smaller streams, where it may be more cost effective and less impacting to use this crossing method.

Threatened and Endangered Species

The United States Fish and Wildlife Service (USFWS) is responsible for protecting threatened and endangered species under the Endangered Species Act (ESA). Federally protected threatened or endangered species that are known or thought to be in the vicinity of the Project in Montana include pallid sturgeon, interior least tern, piping plover, and possibly black-footed ferret, and whooping crane.

Pallid sturgeon in Montana are found in the Missouri River between the Marias River and Ft. Peck Reservoir; between Ft. Peck Dam and the North Dakota state line; and below Intake on the Yellowstone River. Critical habitat has not been designated for the pallid sturgeon, but sections of rivers relatively unchanged by dam construction and operation that maintain large, turbid, free-flowing river characteristics are important in maintaining residual populations of this species. Suitable habitat within the Missouri and Yellowstone rivers would be crossed by using HDD; therefore, no direct impacts to pallid sturgeon habitat are expected to occur as a result of Project construction. Assuming there would be no accidental discharge of drilling mud to the rivers during the drilling process, there will be no direct effect on habitat for pallid sturgeon. The intake end of the pump used to divert water for hydrostatic testing will be screened using an appropriate mesh size to prevent entrainment or entrapment of larval fish or other aquatic organisms. In the unlikely event of a spill that would enter a river, exposure to crude oil could result in adverse toxicological effects to pallid sturgeon. However, adverse effects to pallid sturgeon are unlikely due to: 1) the low probability of a spill, 2) the low probability of a spill in a river reach where pallid sturgeon are present, and 3) the low probability of the spill reaching a river with pallid sturgeon in sufficient amounts to cause toxic effects.

Interior least terns may occur at the Yellowstone River crossing and downstream of the crossing of the Missouri River. However, none was detected during surveys for the pipeline in Montana. No critical habitat has been designated for this species. The crossings of these rivers will be constructed with the horizontal directional drilling method, reducing the direct impacts of construction on favored gravel bar habitat. There is a slight chance that drilling fluids could escape during the drilling process and temporarily muddy the gravel bar habitat. Habitat loss or alteration or oiling of individual birds resulting from a crude oil spill from the pipeline is highly improbable due to: 1) the low probability of a spill, and 2) the low probability of a spill coinciding with the presence of least tern individuals. Additional valves are required at the Yellowstone and Missouri rivers to reduce the volume of oil potentially spilling into these rivers. Habitat may be altered should there be spills of fuel during diversion of hydrostatic test water. Additional survey work and restrictions on the timing of construction activities during nesting and fledging periods, if least terns are found within 0.25 mile of the crossings, should mitigate impacts due to disturbance from construction. Associated transmission lines for pump stations will not cross the Yellowstone or Missouri rivers.

Piping plovers may occur near the Yellowstone and Missouri river crossings where suitable habitat exists. However, no plovers were detected during surveys for the pipeline in Montana. Critical habitat has been designated for this species at the crossing of the Missouri River. The crossings of the rivers will be constructed with the HDD method, reducing the direct impacts of construction on favored gravel bar habitat. There is a slight chance that drilling fluids could escape during the drilling process and temporarily muddy the gravel bar habitat. Habitat loss or alteration or oiling of individual birds resulting from a crude oil spill from the pipeline is highly improbable due to: 1) the low probability of a spill, and 2) the low probability of a spill coinciding with the presence of piping plover individuals. Additional valves are required at the Yellowstone and Missouri rivers to reduce the volume of oil potentially spilling into these rivers. Habitat may be altered should there be spills of fuel during diversion of hydrostatic test water. Additional survey work and restrictions on the timing of construction activities during nesting and fledging periods, if piping plovers are found within 0.25 mile of the crossings, should mitigate impacts due to disturbance from construction. Associated transmission lines for pump stations will not cross the Yellowstone or Missouri rivers.

The Project in Montana is west of the primary whooping crane migration pathway. However, individual birds can be found outside the primary movement corridor and could possibly occur within the Project area in Montana during spring and fall migration. No critical habitat has been identified for whooping cranes near the pipeline in Montana. Possible areas used by whooping cranes during migration would include major river systems and their associated wetlands and shallow areas of reservoirs and other lacustrine wetlands. The Yellowstone River may be a stopping-over point during migration. The crossing of the Yellowstone River will be constructed with the HDD method reducing the direct impacts of construction. There is a slight chance that drilling fluids could escape during the drilling process and temporarily muddy habitat. There is only a remote chance that a whooping crane would collide with one of the associated transmission lines, because of the low number of birds, and because the associated transmission lines avoid preferred habitats. Habitat loss or alteration resulting from a crude oil spill from the pipeline is unlikely due to: 1) the low probability of a spill, and 2) the low probability of a spill coinciding with the presence of individual whooping cranes. Habitat may be altered should there be spills of fuel during diversion of hydrostatic test water. Additional survey work and restrictions on the timing of construction activities during spring and fall migration periods, should whooping cranes be found, would mitigate disturbance related impacts. If whooping cranes are found during this period, equipment will not be started until whooping cranes leave the area by mid-morning.

The pipeline will not cross areas in Montana inhabited by non-essential experimental populations of black-footed ferrets. Black-footed ferrets are mostly dependent on prairie dogs for food and use their burrows for shelter. The one prairie dog colony near the project in Montana is too small to support black-footed ferrets. Should a black-footed ferret exist near the project, adverse effects could include habitat loss, habitat alteration, habitat fragmentation, and mortality. There is a slight chance that heat from the pipeline could affect vegetation. Habitat loss or alteration resulting from a crude oil spill from the pipeline is unlikely due to: 1) the low probability of a spill, 2) the low probability of a spill coinciding with the presence of black-footed ferrets, and 3) the low probability of a ferret contacting the spilled product.

Cultural Resources

DOS, in coordination with consulting parties, has minimized the potential for adverse effects to historic properties along the Area of Potential Effect (APE) of the Project by the development of avoidance and mitigation measures. Since 2008, DOS has consulted with Indian tribes, State Historic Preservation Officers (SHPO), federal agencies, state agencies, and local agencies under Section 106 of the National Historic Preservation Act. As part of this effort, DOS initially contacted over 95 Indian tribes to find out their level of interest in becoming consulting parties. DOS also conducted Section 106 government-to-government consultation with the consulting parties for the Project. DOS also invited the consulting tribes to prepare Traditional Cultural Property studies as part of the lead agency responsibilities for the identification, evaluation, and mitigation of historic properties.

A Programmatic Agreement has been executed by DOS in consultation with the parties and DEQ. The Programmatic Agreement establishes a procedure for the further identification, evaluation, mitigation, and treatment of historic properties. The Advisory Council on Historic Preservation participated in the development of this agreement with DOS and the other consulting parties. As part of this agreement, a Tribal Monitoring Plan, a Historic Trails and Archaeological Monitoring Plan, and an Open Trench Monitoring Plan were also developed. If previously unidentified archaeological sites are encountered during construction of the Project, Keystone, DOS, and the consulting parties will follow the procedures described in the Unanticipated Discovery Plans.

Paleontological Resources

DEQ, in coordination with the DOS, BLM, SHPO, DNRC, and Keystone, has minimized the potential for impacts to paleontological resources along the APE of the Project by the development of avoidance and mitigation measures.

A Paleontological Memorandum of Understanding (MOU) was developed by DEQ in consultation with the parties. The MOU establishes procedures for the further identification, evaluation, mitigation, and treatment of paleontological resources. As part of this agreement, a Paleontological Resource Mitigation Plan has been developed. The mitigation plan specifies the

precise locations within the Project APE where monitoring is required and will describe procedures for fossil salvage and paleontological data recordation for non-extensive, isolated, scientifically significant fossil discoveries. The mitigation plan includes agency or land owner notification procedures, as appropriate, and procedures that construction personnel should follow in the event that an unexpected fossil discovery is made in an area that is not monitored by a paleontologist. The mitigation plan also includes procedures to be followed in the event of an extensive paleontological discovery. The MOU will be fully executed by the DOS upon a final decision on the Project Presidential permit.

Air Quality and Noise

Air Quality: Air quality impacts from construction will include emissions from construction equipment, temporary fuel transfer systems, fuel storage tanks, and dust and smoke from open burning. Most of these emissions will occur only intermittently, will be limited to active construction areas, and will be controlled to the extent required by state and local agencies.

All pump stations will be electrically powered by local utility providers. During normal operation there will be minor emissions from valves and pumping equipment at the pump stations. There will also be low levels of emissions from mobile sources and low levels of emissions from tanks at the interconnection point planned north of Baker. The Project will not cause or contribute to a violation of any federal, state, or local air quality standards, and it will not require a Clean Air Act Title V operating permit.

Noise: During construction, there will be intermittent, temporary, and localized increases in sound levels, as construction activities move through an area. To reduce construction noise impacts, Keystone will limit the hours during which activities with high-decibel noise levels are conducted in residential areas. Noise impacts associated with construction will be minor and temporary.

During operation, sound levels within 2,300 feet of pump stations will increase. Outside of this distance, noise levels will remain at existing sound levels. DEQ's Environmental Specifications place limits on sound levels near pump stations, unless the affected landowner waives this requirement.

Land Use, Recreation, and Visual Resources

Land use: Of the 285 miles of land crossed in Montana, 208 miles of privately owned lands will be affected during construction of the pipeline. Approximately 404 acres of state lands will be impacted during construction, along with about 47 miles of federal lands.

After construction, nearly all agricultural land and rangeland along the right-of-way will be returned to production with little impact on production levels in the long term. However, there will be restrictions on growing woody vegetation and installing structures within the 50-foot-wide right-of-way. Keystone has agreed to compensate landowners for crop losses on a case-by-case basis.

About 10 miles of the pipeline will cross lands that are part of the Conservation Reserve Program. The Project is not expected to affect landowner ability to participate in that program.

Keystone will use construction measures designed to reduce impacts to existing land uses, such as topsoil protection, avoiding interference with irrigation systems except when necessary, reducing construction time in irrigated areas, repairing or restoring drain tiles, restoring disturbed areas with custom seed mixes to approximate existing vegetation, providing access to rangeland during construction, installing temporary fences in some areas as needed with gates around construction areas to prevent injury to livestock or workers, providing trench crossing areas to allow livestock and wildlife to cross the trench safely, and controlling noise and dust.

Recreation: Operation of the Project will not affect recreational resources, national or state parks, or users of those resources. Keystone will cooperate with private landowners and with federal, state, and local agencies, to reduce the conflict between recreational users and Project construction.

Visual Resources: During construction, there will be visual impacts associated with activities along the right-of-way, such as clearing, trenching, pipe storage, and installing above-ground structures. Most of the visual impacts of the pipeline corridor in agricultural and rangeland areas will be substantially reduced with restoration and revegetation. Long-term visual impacts will occur in a few riparian zones, where tall vegetation is not allowed to grow over the trench, where

above ground structures, such as valves, transmission lines, power supplies, and pump stations, will remain visible after reclamation. Keystone will install vegetative buffers around the pump stations to reduce the visual impacts of those facilities. Overall, the visual impacts of the Project will be minor to moderate.

Socioeconomics

The Project will generate direct and indirect economic benefits for Montana. During construction, local employment, taxes on worker income, spending by construction workers, and spending on construction goods and services will result in temporary, positive socioeconomic impacts. Construction of the Project in Montana will occur in four construction spreads. Each spread will require six to nine months to complete, including mobilization and demobilization. The Project will require construction of six pump stations in Montana, with each pump station anticipated to be constructed in 18 to 24 months. Keystone anticipates a maximum construction workforce of 500 to 600 personnel for each spread and 20 to 30 for each pump station.

Keystone will attempt to hire local construction workers to the extent practicable. If a sufficient number of qualified workers were available, Keystone estimates that approximately 10 to 15 percent of the workforce might be hired from the local pool of construction workers for each pipeline spread (about 50 to 90 workers per spread) and each pump station (about two to four workers per pump station). If this is correct, approximately 210 to 380 Montana workers could work on the line during the construction phase. These will be short-term jobs that would end after construction of the pipeline and pump stations. Local hires from Montana could be fewer than 210 workers due to labor shortages caused by the current oil boom in northeastern Montana and western North Dakota.

Operation of the Project will require approximately four to eight permanent employees in Montana. During operation, activities associated with maintenance, monitoring, and repair of the Project will generate a demand for goods and services, including electrical power, that will result in a long-term economic benefit to the region. This benefit will likely be very small compared to the entire economic activity in the region.

Once constructed, the Project will generate long-term property tax revenues for the counties traversed by the pipeline that will last for the life of the Project. The Project will generate approximately \$63 million in annual property tax revenues in Montana, or about 151 percent of the property taxes collected in 2006 in the six counties crossed. The magnitude of the impact will vary from county to county. In some counties, property tax revenue collected will more than double as a result of the line.

Adverse socio-economic impacts during construction could include temporary increases in the need for public services, disruption of local transportation corridors, stresses on local populations, and reduced availability of transient housing. Keystone anticipates constructing two temporary work camps in Montana to minimize impacts to transient housing and public services in those areas.

Cumulative Impacts

The analysis of cumulative impacts combined the potential impacts of the Project with the impacts of past, present, and related future actions in the vicinity of the route. This assessment included consideration of the many existing pipelines, electrical transmission lines, and roadways, as well as other linear projects that are under construction, planned, or proposed near the route. The analysis also included existing and likely energy development projects.

During construction, the Project will contribute to cumulative dust and noise generation, loss of vegetation or crop cover, and minor localized traffic disruptions where other linear projects are under construction at the same time and are in the vicinity of the route.

One of the primary contributions to cumulative effects during operation will be emissions from storage tanks. However, the Project and all other petroleum storage projects will have to comply with the emissions limitations of air quality permits. Where Project-related aboveground facilities and visible rights-of-way are present along with those of other projects, there will be cumulative effects to visual resources. Other cumulative impacts associated with operation include changes in land use, terrestrial vegetation, wetland function, and wildlife habitat, as well as increases in tax revenues and employment. Where the pump stations or compressor stations of other pipeline systems are in the vicinity of the pump stations for the Project, there will also

be cumulative noise impacts.

An increase in the development of wind power projects in the central plains region, as well as increased need for electrical power, is likely to increase the number of electrical transmission lines in the vicinity of the route. If the construction of power distribution or transmission lines in the vicinity of the route overlaps with construction of the Project, short-term cumulative impacts associated with noise, dust, and general construction activity could occur. Likely cumulative impacts of the Project and operation of new transmission lines include viewshed degradation, changes to land uses and vegetation, and impacts to birds.

The probable impacts to all resources (including land use, geology, soils, safety, water, wetlands, vegetation, wildlife, fish, special status species, air quality, noise, socioeconomics, paleontological resources, cultural resources, transportation, utilities, and visual resources) are described in detail in Section 3.14 of the Final EIS.

C. Minimization of Adverse Environmental Impacts:

Construction and operation of the pipeline as proposed in the Construction, Mitigation, and Reclamation Plan (CMR) with modifications made by DEQ in the environmental specifications minimize adverse environmental impacts considering the state of available technology and the nature and economics of the various alternatives. See Table 1.

In addition to the measures described below, measures to minimize impacts include development of a Migratory Bird Conservation Plan in consultation with the USFWS and removal of litter and garbage that could attract wildlife.

For listed threatened or endangered species, development and implementation of a spill containment and contingency plan is required by federal pipeline safety agencies. For interior least terns and piping plovers, if they are found nesting during surveys, timing restrictions would apply during the nesting season until young have fledged. Similarly, construction timing restrictions would be applied if whooping cranes are detected during surveys.

Table 1. Summary of measures to minimize impacts.

Type of Impact	Measures to Minimize Impacts	
	Measure Number in CMRP and brief description	Measure Number or Appendix in DEQ Environmental Specifications and brief description
Geology and Soils		
Soil erosion and topsoil loss	<p>2.7 Indicates that construction vehicles shall be confined to designated roads.</p> <p>2.15 addresses off road vehicle control.</p> <p>4.4 and 4.5 address temporary erosion control measures and slope breakers.</p> <p>4.11.5.1 describes how trench breakers will be used on steep slopes to limit trenchline erosion. Water bars are described in 4.11.5.2. Mulching would be used on all areas with high erosion potential and on slopes greater than 8 percent unless otherwise approved based on site-specific conditions. Erosion control matting will be used in some areas as indicated in 4.11.5.4.</p>	<p>1.1.1 Construction timing is to be planned to minimize impacts.</p> <p>2.1.7 Requires special soil handling in areas susceptible to erosion.</p> <p>2.7.1, 2.7.2, 2.7.3, 2.7.4 Indicate that construction of off ROW access roads will be minimized.</p> <p>2.7.5 and 2.7.6 Require erosion control on access roads.</p> <p>2.7.7 Requires preservation of soil during any construction related snow removal.</p> <p>2.8.2 Prohibits unauthorized cross country travel.</p> <p>2.9.2, 2.9.3, and 2.9.4 Indicate that vegetation clearing is to be minimized where grading is not required.</p> <p>2.9.6 Requires that the amount of soil in burn piles be minimized.</p> <p>2.10.1 Requires that the Storm Water Pollution Prevention Plan be followed.</p> <p>3.1.1 and 3.1.2 Specify timelines for backfilling and installation of erosion control structures.</p> <p>3.2.1 Indicates that restoration, reclamation, and revegetation are required to meet vegetative cover standards.</p> <p>3.2.2 Requires that temporary roads be closed and, unless requested by the landowner, these roads shall be revegetated.</p> <p>3.2.3 Requires that streambanks be restored at a stable angle of repose.</p> <p>3.2.4 Contains restrictions on side-casting of waste from access roads.</p> <p>Section 3.3 addresses follow-up reclamation monitoring.</p> <p>4.2.1 Requires correction of erosion problems during maintenance.</p> <p>4.1 Addresses repair of areas subject to settling and related post-construction maladies.</p> <p>Section 5 addresses decommissioning and abandonment.</p>
Soil	2.7 Construction vehicles shall be	2.3.2 Restricts construction to times when soil

compaction and rutting	<p>confined to designated roads. 2.15 addresses off road vehicle control. 2.18 addresses restrictions for wet conditions in cultivated agricultural areas when rutting and compaction may occur and 4.4 requires use of matting in certain instances. 4.6 indicates additional methods to reduce compaction on the working side of the trench during pipeline stringing. 4.11.1 indicates that compaction will typically be relieved in subsoils that have received substantial construction traffic and methods to accomplish this end are described.</p>	<p>rutting will be less than 4" outside of areas that have been stripped of topsoil. 3.2.8 through 3.2.10 address required alleviation of soil compaction. 4.2.1 Requires that operation and maintenance inspections be completed using ground vehicles during dry or frozen conditions if possible.</p>
Soil mixing	<p>4.3 addresses topsoil removal and storage to reduce mixing of soil horizons. 4.7 provides further guidance on preventing mixing of soil horizons during trenching. 4.10 indicates that subsoil should not be permanently placed on topsoil.</p>	<p>2.1.4 and 2.1.8 Require topsoil to be segregated from subsoil. 2.1.8 Addresses the width of topsoil stripping. 2.1.5, 2.1.6, and 2.1.7 Address alternative soil handling of sensitive soils. 2.3.2 Restricts construction when ruts greater than 4" are causing soil mixing outside of areas where soil has been stripped. 3.2.4 Restricts side-casting of waste from access roads on very steep slopes.</p>
Alteration of topography	<p>4.4 indicates that grading will be undertaken with the understanding that original contours and drainage patterns shall be re-established to the extent practicable. 4.10 indicates that cleanup activities would be to prepare the ROW and other disturbed areas to approximate pre-activity ground contours and that surface drainage patterns shall be restored. 4.11.2 addresses rock removal prior to and after topsoil replacement.</p>	<p>2.1.1 Requires preservation of landscape contours. 3.1.4 Requires reclamation of temporary work areas blend with existing topography. 3.1.5 Requires repairs of subsidence. 3.2.6 Restricts rocks and boulders greater than 3 inches from being left on the ROW. 4.1 Requires repair of areas subject to settling and related post-construction impacts. In Appendix J a winterization plan is required if reclamation cannot be completed until the spring following a construction season. To ensure that backfilled materials are adequately compacted, construction will not occur when spoils and soils are frozen unless otherwise permitted by the state inspector.</p>
Increased soil temperatures	<p>Maximum pressures and throughput have been reduced which should slightly reduce expected temperature increases.</p>	
Contamination	<p>Section 3.0 addresses spill</p>	<p>Appendix M contains a required Hazardous</p>

from spills	prevention and containment during both construction and operations. Federal agencies require a spill plan during pipeline operations.	Materials Management Plan for construction and a Spill Prevention, Control and Countermeasure Plan for construction.
Water Resources		
Sedimentation	2.7 Construction vehicles shall be confined to designated roads. 2.15 addresses off road vehicle control. Section 7 describes construction methods to reduce impacts in and near waterbodies.	2.10.2 Prohibits open-cut stream crossings if water is present. 2.10.3 Requires inspections and special measures at perennial streams. 2.10.5 Requires temporary bridges, fords, and culverts to reduce stream bank damage. Culverts or other methods and proper culvert sizing must be used on permanent roads where fill may wash out during project life. 2.10.6 Restricts streambed materials from being used for backfill or road surfacing. 2.10.8 Restricts in-stream blasting. 2.10.16 Prohibits point discharges to state waters and trenching dewatering without permits. Section 5 addresses decommissioning and/or abandonment. Appendix L addresses special requirements at selected stream crossings. Note that DEQ requires the Project to file required storm water pollution prevention plans.
Alteration of groundwater flow and quality	4.5.3 indicates that trench plugs will be used at waterbody and wetland crossings. Impacts to underground drainage tiles, if they are encountered, are described in section 5.1.	2.10.7 Requires trench breakers to control the flow of water within the trench. Section 5 addresses decommissioning or abandonment. Appendix D requires implementation of a groundwater monitoring plan for wells and springs within 100 feet of the ROW. It also requires restoration or compensation measures for any wells or springs affected by pipeline construction.
Alteration of surface flow	4.10 indicates that cleanup activities would be to prepare the ROW and other disturbed areas to approximate pre-activity ground contours and that surface drainage patterns shall be restored. 4.11.5.1 describes how trench breakers will be used on steep slopes to limit trenchline erosion. Water bars are described in 4.11.5.2. Section 8 addresses methods to be used during hydrostatic testing which will minimize impacts.	2.10.12 Requires that instream flows be maintained at required rates on selected water courses. 2.10.13 Requires DEQ approval of hydrostatic test discharge plan and Appendix F will contain this plan. 2.10.19 Prohibits alteration of flow patterns after final reclamation except for erosion control. 4.1 Requires repair of areas subject to settling and related post-construction impacts. Section 5 addresses decommissioning or abandonment.

Spills and water quality alteration	2.10 and 2.11 address waste and hazardous waste handling and disposal. 4.7.1 contains measures to reduce impacts from trench dewatering and use of well points while 4.9 contains measures to pump water from the trench.	2.10.14 Requires spill reporting and cleanup. 2.10.18 Prohibits addition of biocides and chemicals to hydrostatic test waters and requires testing of hydrostatic test water being discharged. 2.13.1 through 2.13.7 Contain requirements for proper disposal of wastes. Appendix M contains a Hazardous Materials Management Plan for construction and Spill Prevention, Control and Countermeasure Plan for construction.
Wetlands		
	4.5.3 indicates that trench plugs will be used at waterbody and wetland crossings. Section 6 describes methods to minimize impacts to wetlands and section 7 identifies methods to reduce impacts to riparian areas.	Appendix A contains measures to reduce the spread of aquatic nuisance species in streams and other wetlands. Appendix A requires that monitoring occur at depressional wetlands of Prairie Potholes Region and mitigation or compensation be provided to the landowner or land managing agency for wetlands that no longer pond water after pipeline construction. Appendix L contains site specific measures for selected streams and adjacent wetlands.
Terrestrial Vegetation		
Clearing and alteration	2.7 Construction vehicles shall be confined to designated roads. 2.15 addresses off road vehicle control. Tree and brush clearing would be required in a few riparian areas and 4.13 describes methods that would be used so that construction has a minimal impact. Section 6 describes methods to minimize impacts to wetlands and section 7 identifies methods to reduce impacts to riparian areas.	1.1.1 Construction timing is to be planned to minimize impacts. 2.7.1, 2.7.2, 2.7.3, and 2.7.4 Indicate that construction of Off ROW access roads will be minimized. 4.2.2 During operation, shrubs up to three feet tall shall be allowed except for an area 10 feet wide directly over the trench. Landowners may request that shrubs be removed.
Fire	2.16 addresses fire prevention and control.	2.12.1 Compliance with a Fire Prevention and Suppression Plan is required. Appendix N contains a Fire Prevention and Suppression Plan. Appendix O DEQ must approve a Burning Plan and Fire Plan.
Weeds	2.13 addresses weed control. 2.7 indicates that construction vehicles shall be confined to designated roads. 2.15 addresses off road vehicle	4.4.1 Weeds shall be controlled as directed by local weed control boards. In addition, 4.4.2 through 4.4.7 address weed control and monitoring. Appendix K will include the required Noxious

	control.	Weed Management Plan.
Revegetation	4.11 indicates that the objectives of reclamation and revegetation are to return the disturbed areas to approximately pre-construction use and capacity and provides details on seed mix selection criteria, seed viability, timing and conditions for seeding, and acceptable methods for seeding.	3.2.1 Restoration, reclamation, and revegetation are required to meet vegetative cover standards. 3.2.2 Temporary roads shall be closed unless requested by the landowner. These roads shall be revegetated. 3.2.7 Specific seed mixes are required for challenging soil conditions. Section 3.3 addresses follow-up monitoring. 4.1 Requires repair of areas subject to settling and related post-construction impacts. Appendix I will contain a rehabilitation plan addressing erosion control, reclamation, and revegetation. Section 5 addresses decommissioning and/or abandonment.
Wildlife		
Sage and sharp-tailed grouse		Appendix A requires surveys for sage grouse and sharp-tailed grouse, construction timing restrictions near leks and special measures for any lek found within the construction ROW, as well as measures to reduce the mound over the trench which may increase predation of these species. It also requires a compensatory mitigation package, and a follow-up monitoring study for sage grouse. During operations inspection overflights are restricted to afternoons during the sage grouse breeding and rearing season as practicable. Unless otherwise requested by landowners, revegetation efforts would favor the establishment of silver sagebrush and big sagebrush as compatible with other land uses.
Wintering mule deer and Pronghorn antelope		Construction timing restrictions would apply to winter ranges for mule deer and pronghorn antelope.
Species of special concern in Montana		In Appendix A, surveys and construction timing restrictions are required to protect Sprague's pipit, construction timing restrictions would be required near mountain plover nests and breeding mountain plovers, den surveys would be required for swift fox and when found, construction timing restrictions would apply, likewise surveys and timing restrictions would apply to nesting bald eagles, golden eagles, ferruginous hawks, and other raptor species. Great blue heron rookeries should be avoided by 500 feet. Construction

		<p>timing restrictions would apply if a hog-nosed snake or milksnake hibernaculum is found.</p> <p>Opening size of erosion control netting is restricted to not less than 2 inches to protect small animals, native vegetation mixes are favored and growth of non-native species such as cheatgrass and noxious weeds is discouraged in revegetation efforts. Surveys of suitable habitat are required to detect maternity roosts for fringed myotis, long-eared myotis, and Townsend's big-eared bat (species of bats) roost trees. Roost trees would be avoided if possible.</p>
Fisheries		
Fish		<p>Special requirements at stream crossings are listed in Appendix L.</p> <p>2.10.2 Open-cut stream crossings prohibited if water is present.</p> <p>2.10.3 Requires on-site inspections and special requirements at perennial streams.</p> <p>2.10.5 Requires temporary bridges, fords, and culverts to reduce stream bank damage. Permanent roads are to use culverts or other methods where fill may wash out during project life, and proper culvert sizing.</p> <p>2.10.6 Streambed materials will not be used for backfill or road surfacing.</p> <p>2.10.8 Requires restrictions on in-stream blasting.</p> <p>2.10.12 Instream flows to be maintained at required rates on selected water courses.</p> <p>2.10.13 Approval of hydrostatic test plan required.</p> <p>2.10.16 Point discharges to state waters and trenching dewatering prohibited without permits.</p> <p>2.10.12 Instream flows to be maintained at required rates on selected water courses.</p> <p>2.10.13 Approval of hydrostatic test plan required</p> <p>Section 5 addresses decommissioning or abandonment.</p> <p>Appendix A contains measures to reduce the spread of aquatic nuisance species.</p> <p>Appendix F will contain a Hydrostatic Test Discharge Plan.</p> <p>Appendix L includes special requirements at selected stream crossings.</p>
Threatened and endangered species		
		<p>Appendix A requires surveys for interior least terns and construction timing restrictions are required if they are found. Horizontal directionally drilled crossings are required on the Milk, Missouri, and</p>

		Yellowstone rivers to protect pallid sturgeon, interior least tern, and piping plover habitats.
Cultural Resources		
	2.19-Cultural Resources	2.11.1 All construction activities shall be conducted in accordance with the PA in Appendix G for Historic Properties and inadvertent discoveries. For Historic Properties where impacts cannot be avoided, plans shall be developed per the PA in consultation with all interested parties.
Paleontological Resources		
		2.11.2 Prior to and during construction activities, the OWNER shall handle paleontological resources in accordance with the MOU and Paleontological Treatment Plan set forth in Appendix H.
Air Quality and Noise		
Air Quality	2.16 Addresses fire prevention and control measures.	2.12.1 Requires compliance with Fire Prevention and Suppression Plan. 2.12.3 Requires a permit for refuse burning.
Noise	2.12 Addresses minimization of noise during non-daylight hours and within 1 mile of residences.	2.4.1 Noise levels near pump stations shall not exceed 60 decibels during operation unless waived by the landowner.
Land Use, Recreation, and Visual Resources		
Existing property protections	2.5 Addresses compensation of landowners for construction related damage and any potential future damage.	2.5.3 Construction is to be conducted to limit damage to existing property. 2.5.5 Requires notification of potential damage to property.
Livestock	2.7 and 4.12 Describe methods for controlling livestock during construction and seeding rangeland.	2.5.4 through 2.5.8 Address minimizing impacts to livestock.
Traffic controls, Dust control, Garbage	2.7 Roadways are to be marked for project use. 2.14 and 4.14.1 Address minimization of dust. 4.12 – Litter and garbage removed daily.	2.6 and 2.8.5 Requirements for managing traffic during construction. Appendix Q contains dust control requirements. 2.1.3 Requires trash and debris to be regularly removed.
Interference with radio, TV or other stationary communication systems		4.3.1 Interference will be corrected.
Agriculture	2.8 – Aboveground facilities shall be placed as reasonably possible to not	3.2.6 Rocks greater than 3 inches on the surface of the ROW will removed following construction or

	<p>hinder ongoing agricultural activities</p> <p>2.18 – Restrict certain activities in cultivated land during excessively wet soil conditions</p> <p>4.1 – Interference with irrigation systems</p> <ul style="list-style-type: none"> • If feasible, temporary measure shall be implemented to allow for irrigation during construction. • If construction interrupts an operational irrigation system, the landowner and KXL shall develop an acceptable amount of time the system may be out of service. • If stopping irrigation results in crop damages, the landowner will be compensated for those damages. • If irrigation ditches need to be stopped, the length of time of the stoppage will be the time to install the pipe. <p>4.16 – KXL will be responsible for irrigation system repairs that fail.</p> <p>4.2 – If crops are present, they will be mowed to ground level unless a landowner agreement differs.</p> <p>4.2 – Burning is prohibited on cultivated land.</p> <p>4.4 and 4.11.7– Agricultural area with terraces will be surveyed and the survey information will be used for minimizing impacts and reclaiming terraces.</p> <p>4.16 – Trench depressions will be repaired expediently as practicable</p> <p>4.16 – When requested, KXL will monitor yield of land impacted by construction with help of an agricultural specialist. If reduced yields are found, KXL will compensate and implement</p>	<p>be similar what is present on adjacent undisturbed land.</p> <p>Appendix A If existing water lines need to be relocated, KXL will be responsible for the relocation and cost.</p> <p>Appendix A If requested, KXL will bore irrigation ditch and canal crossings.</p> <p>Appendix A – Irrigated fields, ditches, canals and dikes to be restored to a state that existed prior to construction.</p>
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	procedures to return the land to equivalent capability. 5.0 to 5.6 – Procedures to minimize impacts to drain tiles.	
Residential and Commercial/Industrial Areas	4.14 – Procedures to minimize impacts to residential and commercial areas.	
Recreation		
Recreational lands	2.3 – Coordinate with managers of public lands to reduce conflicts between construction and recreational uses.	
Visual Resources	4.14.1 Preservation of mature trees and landscaping in existing residential and commercial areas.	2.1.1 Preservation of the natural landscape. 2.1.9 Preservation of vegetation adjacent to the right-of-way. 4.1.4 Painting or treating permanent above-ground facilities to blend with natural surroundings.
Socioeconomics		
Reduced availability of transient housing and increased need for public services	FEIS page 3.10-56 Construction of temporary work camps in rural areas within Montana and South Dakota to meet housing needs of the construction work force.	
Disruption of local transportation corridors	4.14.1 Maintaining access and traffic flow during construction	2.6 Traffic Control
Stresses on local populations		Appendix A Sensitive Areas – Public liaison officer to resolve complaints or problems of landowners, local communities and residents.

C. Minimization of adverse environmental impacts (continued)

1. The expected net present value of costs, including monetary costs of construction to the applicant, external monetary costs, and the value of reasonably quantifiable environmental impacts is lower for the Project than for any other available alternative that could meet the finding of need. Other available non-construction alternatives considered include: existing or expanding pipeline systems, pipeline systems that have been proposed or announced, and non-pipeline systems such as tank trucks, railroad tank cars, and barges and marine tankers to transport Canadian heavy crude oil to Gulf Coast refineries.

None of the pipeline systems considered would be capable of transporting Canadian crude oil to Gulf Coast delivery points and also provide an on-ramp for domestic crude production from Montana and North Dakota. Therefore, they would not meet the purpose of the Project. A combination of the pipeline systems considered could, over time, deliver Canadian oil sands crude oil in volumes similar to the volumes that will be transported by the Project. However, that would not meet the near-term need for heavy crude oil at the Gulf Coast refineries. Expanding the pipeline systems that were considered to meet the purpose of the Project or construction of new components or a combination of those systems would result in impacts similar to those of the Project.

The trucking alternative would add substantial congestion to highways in all states along the route selected, particularly at and near the border crossing and in the vicinity of the delivery points. At those locations, it is likely that there would be significant impacts to the existing transportation systems. Trucking would also result in substantially higher greenhouse gas emissions and a higher risk of accidents than transport by pipeline. Development of a rail system to transport the volume of crude oil that would be transported by the Project would likely produce less impact from construction than would the Project, because it could be done using existing tracks. However, there would be greater safety concerns and greater impacts during operation, including higher energy use and greenhouse emissions, greater noise impacts, and greater direct and indirect effects on many more communities than the Project.

2. Environmental impacts that could not be quantified in monetary terms were considered.

These impacts were not adverse enough to alter DEQ's determination that the selected location and design for the pipeline minimizes the net present value of costs among alternatives.

3. Measures proposed by Keystone to minimize adverse environmental impacts are set forth in Attachment 1A (revised CMRP) that is incorporated by reference as enforceable provisions of this Certificate of Compliance. Environmental specifications developed by DEQ to minimize adverse environmental impacts are set forth in Attachment 1B, which is incorporated by reference as enforceable provisions of this Certificate of Compliance. Should there be a conflict between the measures developed by Keystone, measures required by federal agencies, and the

environmental specifications developed by DEQ, the more environmentally protective provision will apply. The costs associated with the mitigation measures included in the environmental specifications (Attachment 1B) for the project were considered in DEQ's determination that the selected location and design for the pipeline minimize the net present value of costs among alternatives.

4. Keystone is required to construct the pipeline in the location described in Final Location Selection, and as depicted in Attachment 2. The selected location represents the best balance among the preferred location criteria listed in Circular MFSA-2, section 3.1, considering 1) environmental impact and economic costs; 2) the requirement that public lands be considered and used whenever the use of public lands is as economically practicable as the use of private lands; 3) avoidance of impacts to farmland; 4) cost considerations; 5) avoidance of houses; 6) public acceptance; 7) paralleling existing corridors; and 8) avoidance of impacts to other resources.
5. The location of the pipeline selected by DEQ does not cross national wilderness areas or national primitive areas in Montana.
6. Reasonable alternative locations for the pipeline were considered in selecting the final location in Montana.
7. The final location for the pipeline facility will result in less cumulative adverse environmental impact and economic cost than siting the facility in any other reasonable location, based on identification of any probable significant adverse environmental impacts, identification of reasonable mitigation for these significant adverse environmental impacts, and adoption of acceptable mitigation and monitoring plans set forth in the environmental specifications included as Attachment 1B.

In Montana, the selected location does not cross: national wildlife refuges and ranges; state wildlife management areas; wildlife habitat protection areas; national parks and monuments; state parks; national recreation areas; corridors of rivers in the National Wild and Scenic Rivers system and rivers eligible for inclusion in the system; roadless areas of 5,000 acres or greater in size managed by federal or state agencies to retain their roadless character; specially managed

buffer areas surrounding national wilderness areas; national primitive areas; state or federal waterfowl production areas; National Natural Landmarks; Natural Areas; Research Natural Areas; Areas of Critical Environmental Concern; special interest areas; Research Botanical Areas; Outstanding Natural Areas; municipal watersheds; major elk summer security areas; habitats occupied at least seasonally by bighorn sheep and mountain goats; surface supplies of potable water; any undeveloped land or water areas that contain known natural features of unusual scientific, educational or recreational significance; areas with high waterfowl population densities including prime waterfowl habitat identified through consultation with FWP and other areas identified by FWP or the US Fish and Wildlife Service as waterfowl concentration areas or low-level feeding flight paths; winter ranges for elk; winter ranges for moose; winter ranges for mountain goat; or winter ranges for bighorn sheep. The pipeline will not cross any standing water body greater than 20 acres in size.

8. The pipeline will cross areas with rugged topography on slopes greater than 15 and 30 percent. Vegetation will be destroyed during the construction process, and soil will be exposed to erosion on these steep slopes. Keystone has proposed a plan to control erosion during project construction and will be required to implement a Storm Water Pollution Prevention Plan under the Montana Water Quality Act. Keystone shall submit to DEQ the bond(s) identified in the environmental specifications to ensure that areas disturbed during construction are reclaimed and revegetated.

Federally protected threatened or endangered species that are known or thought to be in the vicinity of the Project in Montana include pallid sturgeon, interior least tern, piping plover, black-footed ferret, and whooping crane. No state listed threatened or endangered species have been designated in Montana.

Since 1980, reports of most frequent occurrence of pallid sturgeon are from the Missouri River between the Marias River and Ft. Peck Reservoir and between Ft. Peck Dam and Lake Sakakawea (in North Dakota); and from the lower 70 miles of the Yellowstone River. Critical habitat has not been designated for the pallid sturgeon, but sections of rivers relatively unchanged by dam construction and operation that maintain large, turbid, free-flowing river characteristics are important in maintaining residual populations of this species. Although pallid

sturgeon may be present at the crossings of the Missouri and Yellowstone Rivers, these river crossings would be crossed using the HDD method. Assuming there would be no frac-outs (unintentional release of drilling fluid and cuttings) reaching the rivers during the drilling process there would be no direct effect on potential river bottom habitat for pallid sturgeon (USFWS 2008). The intake end of the pump used to divert water for hydrostatic testing would be screened using an appropriate mesh size to prevent entrainment or entrapment of larval fish or other aquatic organisms. In the unlikely event of a spill that would enter a river, exposure to crude oil could result in adverse toxicological effects to pallid sturgeon. However, the probability of adverse effects to pallid sturgeon are unlikely due to: 1) the low probability of a spill, 2) the low probability of a spill in a river reach where pallid sturgeon are present, and 3) the low probability of the spill reaching a river with pallid sturgeon in sufficient amounts to cause toxic effects.

Interior least terns may occur at the Yellowstone River crossing in Montana and downstream of the crossing of the Missouri River. However none has been detected during surveys for the proposed pipeline in Montana. No critical habitat has been designated for this species. The crossings of these rivers would be constructed with the horizontal directional drilling method reducing the direct impacts of construction on favored gravel bar habitat. There is a slight chance that drilling fluids could escape during the drilling process and temporarily muddy the gravel bar habitat. Habitat loss or alteration resulting from a crude oil spill from the pipeline is highly improbable due to: 1) the low probability of a spill, 2) the low probability of a spill coinciding with the presence of least tern individuals. Habitat may be altered should there be spills of fuel during diversion of hydrostatic test water. Additional survey work and restrictions on the timing of construction activities during nesting and fledging periods if least terns are found within 0.25 mile of the crossings will mitigate impacts due to disturbance from construction. Associated transmission lines are not expected to cross the Yellowstone or Missouri rivers.

Piping plovers may occur near the Yellowstone and Missouri river crossing where suitable habitat exists. However, no plovers were detected during surveys for the pipeline in Montana. Critical habitat has been designated for this species at the crossing of the Missouri River. The crossings of the rivers will be constructed with the HDD method, reducing the direct impacts of construction on favored gravel bar habitat. There is a slight chance that drilling fluids could

escape during the drilling process and temporarily muddy the gravel bar habitat. Habitat loss or alteration or oiling of individual birds resulting from a crude oil spill from the pipeline is highly improbable due to: 1) the low probability of a spill, and 2) the low probability of a spill coinciding with the presence of piping plover individuals. Additional valves are required at the Yellowstone and Missouri rivers to reduce the volume of oil potentially spilling into these rivers. Habitat may be altered should there be spills of fuel during diversion of hydrostatic test water. Additional survey work and restrictions on the timing of construction activities during nesting and fledging periods, if piping plovers are found within 0.25 mile of the crossings, should mitigate impacts due to disturbance from construction. Associated transmission lines for pump stations will not cross the Yellowstone or Missouri rivers.

The Project in Montana is west of the primary whooping crane migration pathway. However, individual birds can be found outside the primary movement corridor and could possibly occur within the Project area in Montana during spring and fall migration. No critical habitat has been identified near the proposed pipeline in Montana. Possible areas used by whooping cranes during migration would include major river systems and their associated wetlands, as well as palustrine wetlands and shallow areas of reservoirs and other lacustrine wetlands. The Yellowstone River may be a stopping over point during migration. The crossing of the Yellowstone River would be constructed with the HDD method reducing the direct impacts of construction. There is a slight chance that drilling fluids could escape during the drilling process and temporarily muddy habitat. There is only a remote chance that a whooping crane would collide with one of the associated transmission lines because of the low number of birds and because the associated transmission lines avoid preferred habitats. Habitat loss or alteration resulting from a crude oil spill from the pipeline is highly improbable due to: 1) the low probability of a spill, 2) the low probability of a spill coinciding with the presence of individual whooping cranes. Habitat may be altered should there be spills of fuel during diversion of hydrostatic test water. Additional survey work and restrictions on the timing of construction activities during spring and fall migration periods should whooping cranes be found would mitigate disturbance related impacts. If whooping cranes are found during this period equipment would not be started until whooping cranes leave the area by mid-morning.

The pipeline does not cross areas in Montana thought to be inhabited by non-essential experimental populations of black-footed ferrets. Black-footed ferrets are mostly dependent on prairie dogs for food and use their burrows for shelter. The one prairie dog colony near the project in Montana is too small to support black-footed ferrets. Should a black-footed ferret exist near the project, adverse effects could include habitat loss, habitat alteration, habitat fragmentation, and mortality. There is a slight chance that heat from the pipeline could affect vegetation. Raptors may perch on associated transmission lines and could conceivably gain a hunting advantage but this could be mitigated by installing anti-perching devices on the structures. Habitat loss or alteration resulting from a crude oil spill from the pipeline is highly improbable due to: 1) the low probability of a spill, 2) the low probability of a spill coinciding with the presence of black-footed ferrets, and 3) the low probability of a ferret contacting the spilled product.

The Keystone XL Pipeline will not cross any National Historic Landmarks or listed National Register of Historic Places districts or sites.

The Keystone XL pipeline will cross sites that have been determined eligible for listing on the National Register of Historic Places. These sites will be addressed as required by the Programmatic Agreement for the project.

The Keystone XL Pipeline will cross Class I or II streams or rivers, as classified by FWP, including the Milk, Yellowstone, and Missouri rivers. These rivers will be crossed using HDD, and pipeline burial will be well below calculated channel scour depths.

The pipeline will cross streams listed by DEQ as not attaining designated beneficial uses of water (Frenchman, Buggy, Cherry, Middle Fork Prairie Elk, East Fork Prairie Elk, Cabin, Pennel, and Sandstone creeks, as well as the Yellowstone, Milk, and Missouri rivers). Minor short-term adverse impacts to surface water quality will occur by temporarily increasing potential sources of sediment from the initiation of construction to successful revegetation of the disturbed areas. This impact will be mitigated by implementing a Storm Water Pollution Prevention Plan to reduce sediment transport, along with reclamation and revegetation of the disturbed areas. All streams with water present will be crossed using open-cut dry crossing

methods, and at least the Milk, Missouri, and Yellowstone rivers will be crossed with horizontal directional drilled crossings. Keystone is required to submit a bond to help ensure that areas disturbed during construction are reclaimed.

The Keystone XL Pipeline will cross highly erodible soils and areas with severe reclamation constraints. Vegetation will be destroyed during the construction process, and soil will be exposed to erosion on these steep slopes. Keystone will control erosion during project construction and will be required to implement a Storm Water Pollution Prevention Plan under the Montana Water Quality Act. Keystone shall submit to DEQ the bond(s) identified in the environmental specifications to ensure that areas disturbed during construction are reclaimed and revegetated.

The Keystone XL Pipeline will cross areas in Montana with BLM-designated Class II visual resource management, where the objective is to preserve the existing character of the landscape while keeping landscape changes at a minimum. Two of these areas are at the Missouri and Milk rivers, which will be crossed using the horizontal direction drilling method to minimize impacts in the river and adjacent areas. Use of this construction method will minimize or avoid visual changes in the vicinity of the river during operation of the Project. However, a fenced valve will be visible.

After completion of revegetation and reclamation in the remaining Class II areas (near Frenchman Creek, Rock Creek, East Fork Prairie Elk Creek, and U.S. Highway 12), terrain and surface conditions will be similar to those of surrounding areas (FEIS Appendix I page I-200). Keystone adjusted the pipeline route to minimize adverse aesthetic features where possible and will implement measures in their Construction, Mitigation, and Reclamation Plan to reduce long-term visual impacts to less than significant levels.

The Keystone XL Pipeline will cross winter range for mule deer, white-tailed deer, and pronghorn antelope, and wintering animals may be displaced or stressed by human activity associated with construction activities. A small amount of vegetation within these winter ranges will be lost until reclamation is successful. Mitigation of this impact is addressed in the

Environmental Specifications. In these areas, DEQ may impose timing restrictions, if construction activities extend beyond November 15. In these areas, DEQ will determine the need for restrictions based upon the severity of winter conditions and consultation with FWP biologists.

The USFWS has found that listing the greater sage-grouse (rangewide) under the Endangered Species Act is warranted, but precluded by higher priority listing actions. East of the continental divide, sharp-tailed grouse are not considered a state sensitive species. The pipeline will cross through or near both sage-grouse and sharp-tailed grouse breeding areas, and areas where they may concentrate during severe winters. Impacts to grouse on leks could result from construction disturbance during the breeding season in April and early May. Nesting hens could be disturbed during May and early June. Construction activity in the vicinity of grouse leks could reduce reproductive success. This impact is addressed by conditions listed in the DEQ Environmental Specifications for the project.

The Keystone XL Pipeline will cross areas with geologic units or formations that show a high probability of including significant paleontological resources. DEQ, in coordination with the DOS, BLM, SHPO, DNRC, and Keystone, has minimized the potential for impacts to paleontological resources along the area of potential effect of the proposed Project by the development of avoidance and mitigation measures in the form of a Paleontological Memorandum of Understanding, located in Appendix H of the Environmental Specifications.

The selected location is near sites that have or may have religious or heritage significance and value to Native Americans. In accordance with the Programmatic Agreement, included as a condition in the Environmental Specifications, tribal monitors will be present at these locations to minimize potential impacts.

The selected location crosses intermittent streams that are within 15 river miles of rivers or streams that are classified by FWP as a Class 1 fisheries resource and cross three Class 1 streams, the Milk, Missouri, and Yellowstone rivers. Keystone will use HDD crossings of the Milk, Missouri, and Yellowstone rivers. Additional valves are required at the Missouri and Yellowstone rivers to reduce the amount of oil that could enter these streams in the event of an

oil spill. Stream crossings will meet federal safety standards for pipeline burial. Keystone is required to file a spill response plan with the federal Office of Pipeline Safety and implement this plan as required by federal regulations.

D. Portion of the pipeline to be located underground

The pipeline will be located underground, except for pump stations and valves. None of the associated transmission lines will be located underground. A few powerlines providing power to valves may be located underground.

E. Consistency with regional plans for expansion of the appropriate grid

The associated transmission lines are consistent with regional plans for expansion of the Western transmission system.

F. Utility System Economy and Reliability

The associated transmission lines will serve the interest of utility system economy and reliability.

G. Conformance with state and local laws and regulations

Construction of the pipeline in the location discussed below conforms to applicable state and local laws and regulations.

H. Public Interest, Convenience and Necessity

The Basis of the Need of the Facility

The basis of the need of the facility is discussed above.

The Nature of the Probable Environmental Impacts

The nature of the probable environmental impacts is discussed above.

The Benefits to the Applicant, the State, and Any Other Entities Resulting from the Facility

Benefits to TransCanada will be the monetary profit earned from operating the pipeline. It is estimated that Keystone will incur capital costs in and outside of Montana, including mitigation costs, of approximately \$7,050,250,000 and levelized annual operating costs of \$771,000,000. It

is expected that TransCanada will set tariffs to cover its costs and to achieve a reasonable rate of return on its investment. Profits may be shared with its stockholders. Profits, once they are earned, may last the lifetime of the pipeline and will go to both in-state and out-of-state residents who are either employees or stockholders of TransCanada.

Benefits to the State of Montana include local tax revenues in the counties to which the pipeline is located. Combined, these counties will receive annual property taxes of approximately \$63 million. Broken down separately, Phillips County is expected to receive annual property taxes of \$4,367,060, which represents an increase in annual property taxes of 63.37% as a percent of property taxes levied in 2006. Valley County is expected to receive annual property taxes of \$14,860,604, which represents an increase in annual property taxes of 116.72% as a percent of property taxes levied in 2006. McCone County is expected to receive annual property taxes of \$18,038,389, which represents an increase in annual property taxes of 570.53% as a percent of property taxes levied in 2006. Dawson County is expected to receive annual property taxes of \$14,126,149, which represents an increase in annual property taxes of 116.35% as a percent of property taxes levied in 2006. Prairie County is expected to receive annual property taxes of \$5,869,630, which represents an increase in annual property taxes of 278.58% as a percent of property taxes levied in 2006. Finally, Fallon County is expected to receive annual property taxes of \$5,695,963, which represents an increase in annual property taxes of 122.14% as a percent of property taxes levied in 2006.

Benefits to the State of Montana include additional state-level tax revenues. It is expected that State General Fund taxes totaling \$16,324,764 will be collected annually in the counties.

Additionally, it is expected that university system taxes totaling \$1,031,038 will be collected annually in the counties. (Jon Schmidt, Trow: Keystone XL Pipeline Project, Response to US Dept. of State Data Request 2.0, June 25, 2009.) Increases in payroll taxes from additional income created by the Project will also accrue to the State of Montana.

An additional benefit would likely occur to Montana oil producers from construction of the on-ramp to the pipeline north of Baker. The benefits of this access may include a higher price obtained from Montana-produced oil, which is currently sold at a discount to the average U.S.

price due in part to inadequate oil transmission infrastructure. Construction of the pipeline would provide Montana producers with direct access to refineries in PADD III. The direct access may allow more Montana production to occur due to increased available transfer capacity (relieving bottlenecks) and easier refinery access. These benefits would also likely occur for North Dakota oil-producers that use the on-ramp. More oil production in Montana would lead to both benefits and costs in Montana. Benefits would include increased jobs and income over the current level of oil production, as well as increased natural resource taxes collected by the State.

The main costs from the pipeline, unlike the benefits, will be concentrated along the pipeline route. Costs will be experienced mostly by landowners on or near the pipeline route and small towns near the route. Costs to landowners will occur from the pipeline where it crosses farmland and rangeland in the form of lost productivity, inconvenience and costs in running equipment around the disturbed area, weed control, and other costs. Almost all of the land crossed in Montana is rangeland. Some other uses of land could be compromised with a pipeline on the property as well.

Some landowners have expressed concern over their personal uses of the land and property values. Specific economic costs to landowners will include temporary disruption of farming and ranching activities during construction of the pipeline, loss (although compensated for through the easement purchase) of potential future uses of the land occupied by the pipeline (such as a building site), the temporary disruption of water supplies as water supply pipelines or ditches are cut during trenching, and the temporary disruption of fencing during construction.

Keystone will compensate farmers for crop losses, reclaim the land in the construction ROW to preconstruction conditions as much as possible, and provide payments for easements along the route. As a result, the impact of the pipeline on farm income will likely be temporary. The significance of the impact to each landowner will depend on the terms of payment agreed to between the landowner and Keystone and the specific pipeline route on the affected land.

The pipeline would not have a major impact on residential and agricultural property values. While studies have shown that residential and agricultural properties located on or adjacent to

pipeline easements could have property values worth more or less than comparable nearby properties that were not encumbered by pipeline easements, the differences generally were statistically insignificant and the absolute dollars involved were not significant relative to the overall property value and sales prices.

Spill risk assessments were conducted during the environmental review to assess the likelihood of operational releases from the pipeline. Using a Pipeline and Hazardous Materials Safety Administration database, a spill frequency of 1.83 incidents per year for crude oil spills greater than 50 bbl was estimated. Using a National Response Center database, a spill frequency ranging from 1.38 incidents per year to 0.68 incidents per year for crude oil spills up to 50 bbl was estimated. The estimate of the incident frequency for crude oil spills of any size, using both the Pipeline and Hazardous Materials Safety Administration significant spill database for spills greater than 50 bbl and the National Response Center database for spills up to 50 bbl, was 2.51 crude oil spills of any size per year. These spill risk assessments are for the entire 1,682-mile length of the Project. The spill risk assessment for the 285.5-mile length in Montana would be correspondingly lower.

Federal approval of the pipeline will include processes, procedures and systems to prevent, detect, and mitigate potential oil spills that could occur during operation of the proposed pipeline. TransCanada will also be liable for all costs associated with cleanup and restoration as well as other compensations. TransCanada will also submit reclamation and revegetation bonds to the State of Montana, and purchase insurance to ensure satisfaction of TransCanada's obligations arising after the pipeline is put into operation, including cleanup obligations associated with an oil spill.

Costs associated with some environmental impacts cannot be easily assigned a monetary value. These include visual impacts, loss of wildlife habitat, soil erosion, and cultural resource impacts. As discussed above, these impacts are minimized under this Certificate.

National benefits from this pipeline may positively affect Montanans in terms of their consumption of petroleum products. In PADD III, consumption of heavy crude is expected to

increase as production of lighter crude from current sources decreases. The increase in heavy crude consumption coupled with continued expected declines from Mexican and Venezuelan sources of heavy crude make increased access to Canadian crude desirable from both an economic and national security standpoint. Increasing development of and access to this large source of oil located in a stable country, with which the U.S. has free trade agreements, would tend to decrease price volatility and reduce the U.S. dependence on oil from countries with uncertain or declining production horizons, as well as from countries where political considerations reduce the reliability of beneficial trade relationships with the U.S. In addition, there would be several other potential benefits to obtaining oil from this source via the Keystone XL pipeline to PADD III:

- Reductions in the price of crude oil increase the level of output of the U.S. economy. Assuming that environmental externalities associated with crude oil consumption are appropriately addressed through regulation, projects such as the Keystone XL Project put downward pressure on the price of crude oil and benefit the U.S. economy.
- A reduction in oil shocks. Oil shocks (unanticipated supply reductions that result in price spikes) reduce the amount of goods and services the U.S. can produce given a fixed amount of other inputs and cause some inputs (e.g., land, labor, and capital) to be under-utilized. The likely cost of future oil shocks to the U.S. economy was estimated to be between \$2 and \$8 per barrel. Thus, projects that stabilize crude oil supply through supply diversification and increased access to politically stable regions, such as the Project, benefit the U.S. economy.

Benefits to the federal government include federal taxes paid by Keystone.

Effects of Economic Activity; Public Health, Welfare and Safety

Benefits to the State of Montana include a short-term boost to local economies from construction. Approximately 210-380 Montana workers could work on the pipeline for an average of 8 months if Keystone's estimate of 10-15% local hiring materializes. However, there

might not be a sufficient number of workers available in eastern Montana to achieve this goal, due in part to labor shortages in that part of the state from the current oil boom.

During construction, benefits will be derived from wages earned by local construction workers that are likely above the wages that might otherwise be earned at other jobs by those workers, from construction-related expenditures made at local businesses, from construction workers spending in local economies that would not occur without the Project, and from taxes on both wages and expenditures that will go to local and state governments.

Operation of the pipeline would require approximately four to eight permanent employees in Montana. During operation, activities associated with maintenance, monitoring, and repair of the pipeline will generate a demand for goods and services, including electrical power, that will result in long-term economic benefits to the region. The four electrical coops and one utility that will serve the pump stations have taken careful measures to insulate their customers from the risk of electricity cost increases due to service to the pipeline.

Adverse economic impacts during construction would include temporary and minor increases in the need for public services, disruption of local transportation corridors, and reduced availability of transient housing. TransCanada will establish temporary work camps during construction to minimize impacts to housing and public services in those areas. Most of the adverse effects on local services will occur on smaller towns during construction when workers will be in the area. There is a slight possibility that local workers could be lured from their existing jobs toward higher paying pipeline construction jobs, but that effect is likely insignificant in the long run. Social stresses from the line are likely to go away shortly after construction is done. During construction, there will be a temporary increase in population in each county along the route from the presence of construction workers. Population impacts in the region will depend on the composition of the local and non-local construction workforces and the existing population in the area. As described above, pipeline workers in Montana will be housed in work camps established by Keystone. This will reduce the effect of the temporary population increase on residents of rural areas.

With a relatively large construction workforce temporarily in the area, the primary increases in public service needs will include responses to emergencies and disturbances during construction. The majority of the construction workforce will be housed in the work camps, where there will be basic medical facilities and security staff to respond to minor emergencies and disturbances. The camps will also include water supplies and sanitary waste treatment facilities. As a result, construction impacts to existing public services in the vicinity of the pipeline, including the towns of Baker and Nashua, will be minor and temporary.

Net Benefit Determination

While the cost of construction and operation of the pipeline and the tax benefits and other economic benefits to counties and the State can be quantified, nonmonetary benefits derived from the pipeline and the other nonmonetary costs, including costs to the environment and Montana landowners, cannot. While the nonmonetary costs cannot be quantified, the selected location of the pipeline and conditions imposed by this Certificate minimize these adverse impacts on the environment, landowners and affected communities. The quantified and unquantified benefits to the State of Montana, other states, the public at large, and TransCanada outweigh the quantified costs and unquantified costs of the Project. The long-term tax benefits to counties, potential benefits to Montana oil producers, and potential long-term benefits to oil supply and prices nationwide, outweigh costs to landowners and towns along the pipeline route--most of which would occur in the short-term during construction.

The net benefits of the Project also outweigh the net benefits of other alternatives to the pipeline. Under the No Action Alternative, crude oil demand in PADD III would likely be met by one or more of the following options:

- Delivery by marine tankers from countries outside of North America (primarily from the Middle East);
- Delivery from the WCSB (Alberta) through the construction of alternative pipeline systems between the WCSB and PADD III;
- Delivery from the WCSB to PADD III via existing pipeline connections to PADD II and new onward pipeline connections to PADD III;

- Delivery of WCSB crude by other transportation methods (e.g., railroad tank cars, perhaps supported by barge transport); or
- Delivery from the WCSB through the construction of a pipeline to a port in Canada and subsequent shipment of the oil by marine tanker to PADD III.

No other currently proposed pipelines providing a route from Canada to PADD III with the capacity of Keystone XL are expected to be online before Keystone XL. Any alternative pipeline system constructed to move WCSB crude oil directly to PADD III refineries would likely have environmental impacts that are similar to those of the Project. Additional pipeline infrastructure constructed to provide greater pipeline capacity between PADD II and PADD III would likely produce environmental impacts similar to those of the Gulf Coast Segment of the Project.

Even if the United States, or countries around the world, adopt policies that would reduce the consumption of crude oil, there would still likely be a market demand for substantial increases in the volume in crude oil derived from the Canadian oil sands over the next 20 to 25 years. For this reason, use of alternative energy sources and energy conservation in meeting needs for transportation fuel is not considered an alternative to the Project.

Using trucking instead of Keystone XL would add substantial congestion to highways in all states along the route selected, particularly at and near the border crossing and in the vicinity of the delivery points. At those locations it is likely that there would be significant impacts to the existing transportation systems. The trucks would consume millions of gallons of fuel per year, with subsequent exhaust emissions (including greenhouse gases) and other negative environmental effects. The potential for human injury and death are much greater in trucking crude oil than for pipelines.

Development of a rail system to transport the volume of crude oil that would be transported by the Project would likely produce less impact from construction than would the Project. However, there would likely be greater safety concerns and greater impacts during operation,

including higher energy use and greenhouse gas emissions, greater noise impacts, and greater direct and indirect effects on many more communities than the Project.

Marine transport of WCSB crude oil would not meet the Project's objectives, would result in greater energy consumption and greenhouse gas emissions, would increase the cost of delivered crude oil to the Gulf Coast refineries, and would have greater safety concerns than the Project.

H. Air and water quality decisions, opinions, orders, and certifications:

Construction and operation of the pipeline and associated facilities do not require any air decision, opinion, order, certification, or permit. Keystone has obtained a 318 Authorization. If the start of construction is delayed more than one year, Keystone shall reapply for this Authorization. Construction will not take place in waters of the State without a valid 318 Authorization. Keystone shall file a Storm Water Pollution Prevention Plan with DEQ prior to the start of construction and shall maintain a valid Storm Water Pollution Prevention Plan until reclamation and revegetation is complete.

Use of public lands

DEQ evaluated the use of public lands for location of the pipeline. Keystone's proposed alignment is modified to make better use of land under the jurisdiction of the BLM and the DNRC as described below under Final Location Selection. State lands were considered and are used where the use of State lands results in less environmental impact than the use of private lands. However, in some cases, the pipeline will be located on private land rather than State land to reduce impacts to farming and increase distance from residences.

II. Final Location Selection

Under the No Action Alternative, the potential adverse and positive impacts associated with building and operating the Project would not occur. However, there is an existing market demand for heavy crude oil in the Gulf Coast area. The demand for crude oil in the Gulf Coast area is projected to increase, and refinery runs are projected to grow over the next 10 years.

Improved fuel efficiency and broader adoption of alternative fuels would not likely substantially alter the demand for Canadian crude oil.

At the same time, three of the four countries that are major crude oil suppliers to Gulf Coast refineries currently face declining or uncertain production horizons. If Canadian crude oil is not transported to PADD III refineries, the refineries would continue to be dependent on less reliable foreign oil supplies.

If the Project is not built and operated, Gulf Coast refineries would likely obtain Canadian crude oil transported through other new pipelines or by rail or truck transport. In addition, the Gulf Coast refineries could obtain crude oil transported by marine tanker from areas outside of North America. The impacts of other pipeline projects would likely be similar to the Project and the transportation of crude oil by tanker would likely result in greater greenhouse emissions.

In addition, under the No Action Alternative, the additional tax revenues by Montana counties and the State would not be generated, nor would the benefits derived from the Bakken on-ramp be realized. Based on these considerations, DEQ does not select the No Action Alternative.

Major Alternatives

In addition to the No Action Alternative, ten alternatives were developed for consideration in Montana: Express-Platte Alternative 1, Express-Platte Alternative 2, Alternative SCS-A1A, Alternative SCS-A, Alternative CND, Keystone corridor Alternative-1, Alternative SCS-B, Proposed Steel City Segment, Baker Alternative, Western Alternative, and Alternative CSD. These alternatives are shown in Figure 4.3.3-1 of the final EIS. In addition to the route alternatives assessed in Section 4.3 of the EIS and in the initial Keystone MFSA application, DEQ required that Keystone provide assessments of two additional routes using a route development model based upon geographic information system (GIS) databases. This resulted in the CSD (Canada to South Dakota Alternative) and CND (Canada to North Dakota Alternative). Seven of the Montana alternatives were eliminated early in the evaluation process by screening against the following criteria: would the alternative (1) meet the purpose of and need for the

Project, (2) be technically and economically practicable or feasible, 3) minimize environmental impact, and 4) or maximize the use of public land.

A) In addition to the No Action Alternative, three alternatives were considered in detail; the Canada to North Dakota Alternative (CND), the Canada to South Dakota Alternative (CSD), and Keystone's proposed location known as Alternative B. In addition, DEQ considered 98 local routing options, including 48 realignments advanced by Keystone.

DEQ did not select the Canada to North Dakota Alternative (CND). Although this route is considerably shorter in Montana, overall this alternative would be 65.5 miles longer than the Canada to South Dakota Alternative (CSD) and 73.1 miles longer than the Alternative B. As a result of the greater length, the area of construction impacts on Alternative CND would also be greater as compared to those of Alternative CSD and Alternative B. The estimated construction cost of Alternative CND is about \$67.1 million more than that of Alternative CSD due to its greater length and about \$284.1 million more than that of Alternative B. Alternative CND would cross more state and federal lands than the Project in Montana. Alternative CND would cross the Little Missouri National Grassland in North Dakota and the Missouri River National Recreation Area in South Dakota and Nebraska. Therefore, Alternative CND was eliminated from further consideration.

DEQ's review of Alternative CSD revealed many unusual angles along the alignment that appeared to be artifacts of the modeling effort. To develop a more realistic alternative pipeline route, DEQ straightened the Alternative CSD alignment where appropriate and also adjusted it to avoid the steepest terrain, multiple crossings of the same stream, residences, and irrigated lands. These adjustments resulted in slightly more private land being crossed, as compared to the originally modeled Alternative CSD.

Although the modified Alternative CSD would cross substantially more public land in Montana, its implementation would result in a longer construction ROW and a greater total area of construction impacts in Montana and along the Steele City Segment as compared to Alternative

B. In addition, the greater length of the modified Alternative CSD would result in about a nine percent increase in construction cost for the Steele City Segment of Alternative B. The modified Alternative CSD was not carried forward because of its additional impacts and costs compared to Alternative B. However, segments of the modified Alternative CSD would cross more public land as compared to the corresponding segments of Alternative B. As a result, DEQ considered these segments of the modified Alternative CSD as local routing options, described in the EIS as Montana Variations (MTVs).

Keystone also conducted their own additional studies of potential reroutes to the 2009 proposed Project route, as well as those suggested by landowners and MDEQ. This resulted in the creation of 48 Keystone realignments (identified as KEY-1, for example), ranging in length from about 0.2 mile to about 4.1 miles.

B. Selection of Approved Location

The approved location for the Keystone XL Pipeline is shown on Attachment 2. MTVs and Keystone realignments are indicated in Volume 6, Appendix I, of the final EIS.

The Project enters Montana at the Saskatchewan/Montana border near Morgan, Montana. Beginning at milepost 0 to 0.2, DEQ has selected KEY-1 to avoid going through the pump station of the Northern Border Pipeline. From milepost 0.2 to 16.6, DEQ selects Alternative B due to fewer impacts to cultural resources, and engineering concerns over the alternatives, MTV-1 and MTV1a. The engineering concerns include a hydraulic design review indicating that pump station 10 in Valley County would have to be moved at least 1.25 miles upstream. The additional length of MTV-1 and MTV-1A would reduce capacity to 800,000 bpd. Pump station 11 also might have to be moved to maintain a nominal capacity of 830,000 bpd. From milepost 16.6 to 19.22, DEQ selected KEY-2 over Alternative B because it better protects cultural resources, uses more public land, avoids more steep terrain, and crosses fewer streams.

From milepost 19.22 to milepost 22.55, MDEQ selects MTV-30 because it avoids crossing several streams, uses more public land, avoids more cultural resources, and uses flatter terrain than the corresponding segment of Alternative B and a portion of KEY-3. Between mileposts 22.55 and 23.46, DEQ selects the southwestern segment of KEY-3 to avoid cultural resources. From milepost 23.46 to 26.85, a combination of KEY-4 and Alternative B because this route location parallels an existing pipeline and provides a better crossing of Frenchman Creek. DEQ approves Alternative B from milepost 26.85 to 34.54. From milepost 34.54 to 36.47, DEQ approves a wider corridor to avoid a cultural resource concern. This wider approved corridor is indicated in Figure 1 of Appendix E of the attached Environmental Specifications (Attachment 1B). DEQ approves Alternative B from milepost 36.47 to 38.3.

From milepost 38.3 to 40.08, DEQ selects KEY-6 because it crosses less steep terrain and uses more public land than the corresponding Alternative B segment. KEY-6 crosses more public land than MTV-2. KEY-6 crosses fewer slopes over 30 percent and uses more public land than MTV-2a. DEQ approves Alternative B from milepost 40.08 to 40.67.

MTV-3 was compared to Alternative B from milepost 40.67 to 80.84. MTV-3 was not selected because the protection of greater sage-grouse habitat outweighed the use of more public land. Alternative B is approved from milepost 40.67 to 43.12. From milepost 43.12 to 46.03, DEQ selects KEY-8 because it crosses Lime Creek at a preferred perpendicular creek crossing and minimizes construction impacts to cultural resources when compared to Alternative B. Alternative B is approved from milepost 46.03 to 53.64.

DEQ approves a wider corridor from milepost 53.64 to 54.43 to avoid a cultural resource concern (see Attachment 1B). DEQ selects Alternative B from milepost 54.43 to 62.84. DEQ approves a wider corridor from milepost 54.95 to 55.02 to help facilitate location of the pipeline outside a drainage. While the pipeline will still be located within what would be the usual corridor width, TransCanada will be able to use an area outside what would be the usual corridor width for temporary construction work space. The area that lies outside the usual corridor width totals approved 0.16 acres. DEQ did not receive any adverse comments from the landowner

concerning Key-11 (see Attachment 1B, Figure 2 of Appendix E in the Environmental Specifications). From milepost 62.84 to 64.29, DEQ selects KEY-12 because it minimizes impacts to cultural resources. DEQ approves Alternative B from milepost 64.29 to 65.01. At this intersection, KEY-13 was not selected because MTV-20 was selected and will address this landowner's concern. DEQ approves Alternative B from milepost 65.01 to 65.39.

To avoid a residential concentration named Cherry Valley Estates and to use more public land, DEQ selects MTV-20 from milepost 65.39 to 73.08. DEQ did not select Alternative B, KEY-13, or KEY-14 because MTV-20 addressed concerns over proximity to the subdivision, wells, and homes while crossing more public land. The DEQ approves Alternative B from milepost 73.08 to 77.67. From milepost 77.67 to 79.62, DEQ selects KEY-15 to avoid two additional cultural resource sites potentially eligible for the National Historic Register.

DEQ approves Alternative B from milepost 79.62 to 85.38. To minimize impacts to the crossing of the Vandalia Canal, DEQ selects MTV-23 from milepost 85.38 to 86.4. DEQ approves Alternative B from milepost 86.4 to 88.55. At a landowner's request to minimize impacts to the crossing of irrigation canals, DEQ selects MTV-21 from milepost 88.55 to 89.05. DEQ approves Alternative B from milepost 89.05 to 90.34. After consideration of MTV-22, and the corresponding Alternative B and KEY-16 segments, DEQ selects a combination of MTV-22 and the southern end of KEY-16 from milepost 90.34 to 93.95. This location reduces the amount of old landslide area crossed.

DEQ selects Alternative B from milepost 93.95 to 97.82. From milepost 97.82 to 98.89, DEQ approves a wider corridor to avoid a cultural resource concern (see Attachment 1B, Figure 3, Appendix E in the Environmental Specifications). DEQ selects Alternative B from milepost 98.89 to 112.74. DEQ selects a combination of KEY-21 and KEY-48 from milepost 112.74 to 116.9. When compared to the corresponding Alternative B and northern portion of KEY-21, this route more effectively avoids steep terrain. DEQ selects Alternative B from milepost 116.9 to 124.41. DEQ approves a wider corridor from milepost 121.24 to 121.33 to help facilitate locating the pipeline around a small butte. While the pipeline will still be located within what would be the usual corridor width, TransCanada will be able to use an area outside what would

be the usual corridor width for temporary construction work space. The area that lies outside the usual corridor width totals approved 0.81 acres. DEQ did not receive any adverse comments from the landowner concerning Key-22 (see Attachment 1B, Figure 6 of Appendix E in the Environmental Specifications).

From milepost 124.41 to 126.6, DEQ selects KEY-24 to avoid a well and a pond. DEQ selects Alternative B from 126.6 to 128.55. From milepost 128.55 to 129.33, four alternatives were under consideration. DEQ selects a combination of alternatives consisting of KEY-25 from milepost 128.55 to 128.88, MTV-5a from milepost 128.88 to 129, and Alternative B from milepost 129 to 129.33. This location results in the least amount of environmental impact in a channel migration zone and avoids a stream pool and intermittent stream channel. DEQ approves Alternative B from milepost 129.33 to 131.37.

DEQ selects MTV-6, from milepost 131.37 to 162.54 as modified by MTV-6a, MTV-6b, and MTV-6c. The route will cross substantially more public land without increasing construction costs, as compared to Alternative B, MTV-7, KEY-26, KEY-27, and KEY-28. DEQ selects MTV-6a from milepost 145.3 to 146.8 to avoid excessive stream crossings, increase the distance between the pipeline and a house, and avoid cultural resource impacts. DEQ selects MTV-6b from milepost 147.8 to 150.3 to avoid the construction difficulties associated with the cliff on the south side of the Redwater River. DEQ selects MTV-6c from milepost 150.9 to 151.9 to provide a better approach to pump station 12.

DEQ selects Alternative B from milepost 162.54 to 163. From milepost 163 to 166.13, DEQ approves a wider corridor to allow for a better stream crossing and to avoid a well as requested by a landowner (see Attachment 1B, Figure 4 of Appendix E in the Environmental Specifications). DEQ selects Alternative B from milepost 166.13 to 167.46.

From milepost 167.46 to 190.91, DEQ analyzed eight route variations in addition to Alternative B. DEQ selects a combination of Alternative B, MTV-9g, MTV-10, KEY-30, and the southern 1.5 miles of MTV-9e. DEQ selects MTV-9g from milepost 183.97 to 186.3 because it avoids a developed spring and deep pool in Clear Creek. DEQ selects MTV-10 from milepost 179.45 to

180.9 to satisfy a landowner's request to avoid a stock pond. DEQ selects KEY-30 to avoid grain bins at a landowner's request. DEQ selects MTV-9e from milepost 189.33 to 190.91 because it crosses more state land than Alternative B.

DEQ approves Alternative B from milepost 190.91 to 191.94. From milepost 191.94 to 193.9, DEQ selects MTV-29. MTV-29 avoids crossing wind breaks as requested by a landowner and avoids constructing the pipeline near a transmission line structure. DEQ approves Alternative B from milepost 193.9 to 195.05. On the south side of Interstate 94, DEQ selects MTV-25 from milepost 195.05 to 196.5 because it avoids an irrigated field.

DEQ approves Alternative B from 196.5 to 198.1. On the south side of the Yellowstone River, from milepost 198.1 to 199, DEQ selects KEY-31 to minimize impacts associated with construction across rough terrain just south of the Yellowstone River. From milepost 199 to 201.53, DEQ selects KEY-32 to avoid pivot irrigation areas. DEQ approves Alternative B from milepost 201.53 to 202.74. Between mileposts 202.74 and 205.05, DEQ selects MTV-11a to avoid crossing dikes and streams around Cabin Creek.

DEQ approves Alternative B from milepost 205.05 to 206.2. From milepost 206.2 to 207.1, DEQ selects Alternative B over MTV-12 because MTV-12 crosses the heads of draws and would result in greater impacts from erosion. Revegetation along Alternative B should be less problematic than on MTV-12. DEQ approves Alternative B from milepost 207.1 to 214.9.

From milepost 214.9 to 216.9, DEQ selects a combination of alternatives consisting of a wider corridor: from 214.9 to 216.23 to minimize ground disturbance and DEQ selects MTV-26 from milepost 216.23 to 216.9 to avoid corrals and a cut bank at a creek crossing. DEQ approves Alternative B from milepost 216.9 to 225.7.

Between mileposts 225.7 and 245.18, DEQ does not select MTV-13 because of potential impacts to greater sage-grouse habitat. For the evaluation of the corresponding segment of Alternative B, four variations were considered. Between mileposts 226.73 and 229.3, DEQ selects KEY-36 to avoid a reservoir used as a water supply at a landowner's request. Between mileposts 230.6 and

234.7, DEQ selects KEY-37 to avoid a road used in transporting farm equipment to pastures, rough terrain, and crossing a reservoir. South of Pennel Creek, from milepost 234.75 to 238.68, DEQ selects MTV-27 to avoid crossing flood-irrigated land and to address a landowner's concerns about proximity to his residence and a nearby well. From milepost 238.87 to 239.44, DEQ selects KEY-39 to improve the approach to pump station 14 to accommodate the proposed Bakken Marketlink Project.

From milepost 245.19 to 253.7, DEQ selects Alternative B as modified by MTV-15 to reduce impacts to greater sage-grouse habitat and a greater sage-grouse lek, and to respond to a request by a landowner to avoid construction in the vicinity of two residences and a water well. DEQ does not select MTV-14 because the corresponding segment of Alternative B together with MTV-15 better avoids residences.

From milepost 253.7 to 261.1, DEQ selects Alternative B combined with KEY-40 from milepost 254.75 to 258.38 to avoid steep terrain, use more public land, and address concerns about potential impacts to greater sage-grouse habitat. This segment of KEY-40 is shorter, addresses concerns about road and stream crossings, and better avoids cultural resources that would have been encountered on MTV-16 (milepost 253.7 to 261.1). Between mileposts 261.1 and 263.2, DEQ selects MTV-17 because it uses more public land than Alternative B.

DEQ approves Alternative B is approved from milepost 263.2 to 265.64. DEQ selects KEY-41 from milepost 265.64 to 269.44 to avoid construction through a pond. DEQ did not select MTV-18 because of its added construction cost due to the additional 1.1 miles of length. Alternative B is approved from milepost 269.44 to 277.02. Between mileposts 277.02 and 278.92, DEQ selects KEY-45 to avoid construction near springs. DEQ approves Alternative B from milepost 278.92 to 280.91.

Between mileposts 280.9 and 284.67, DEQ selects MTV-19a because it avoids an unstable valley wall, avoids a cultivated field, buried water lines, and it is further from a residence. DEQ did not select corresponding segments of KEY-46, MTV-19, or Alternative B as the landowner concerns were addressed by MTV-19a.

DEQ approves Alternative B is approved from milepost 284.67 to 284.88. DEQ selects KEY-47 from milepost 284.88 to 285.45 to shorten the route and to move the crossing of the tributary to Box Elder Creek to a location without steep banks in South Dakota.

III. Conditions

- A. Keystone shall comply with all applicable U.S. Department of Transportation pipeline standards.
- B. Unless extended pursuant to Section 75-20-303, MCA, construction of the pipeline must be completed within ten years of the date of this Certificate.
- C. Pursuant to Section 75-20-402, MCA, Keystone shall pay all expenses related to the monitoring plan contained in the Environmental Specifications.
- D. Keystone shall construct and operate the pump stations so that average annual noise levels, as expressed by an A-weighted day-night scale (L_{DN}), do not exceed 60 decibels at the fenceline or Keystone's property boundary, whichever is farther from the pumps, unless the affected landowner waives this condition.
- E. Transmission lines less than 10 miles in length, considered as associated facilities, must be constructed and operated so that average annual noise levels, as expressed by an A-weighted day-night scale (L_{DN}), will not exceed 50 decibels at the edge of the right-of-way in residential and subdivided areas, unless the affected landowner(s) waives this condition.

F. Keystone shall correct unacceptable interference with stationary radio, television, and other communication systems as identified in Section 4.3 of Environmental Specifications for the project.

G. Keystone shall adhere to the National Electrical Safety Code regarding the associated transmission lines.

H. Environmental specifications developed by DEQ to minimize adverse environmental impacts are set forth in Attachment 1B, which is incorporated by reference as enforceable provisions of this Certificate of Compliance. Should there be a conflict between the measures developed by Keystone, measures required by federal agencies, and the environmental specifications developed by DEQ, the more environmentally protective provision will apply.

I. Keystone shall ensure that construction and operation of the associated transmission lines meets the following standards: a) the electrical field at the edge of the right-of-way does not exceed one kV per meter measured one meter above the ground in residential or subdivided areas, unless the affected landowner waives this consideration and b) the electric field at road crossings under the facility does not exceed seven kV per meter measured one meter above the ground.

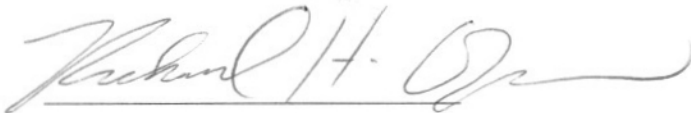
J. Keystone shall consult with the Federal Aviation Administration (FAA), after final design is completed, and comply with the identification and marking standards established by the FAA for above ground associated facilities.

K. Keystone shall not commence to construct the pipeline in Montana prior to issuance of a Presidential Permit by the U.S. Department of State without including the 57 Project-Specific Special Conditions in its procedural manual for operations, maintenance and emergencies submitted to the Pipeline and Hazardous Materials Safety Administration under 49 CFR 195.402.

Certificate of Compliance

Pursuant to Section 75-20-301, MCA, DEQ certifies that the design, location, construction, operation, maintenance, and decommissioning of the Keystone XL pipeline, in conformance with the provisions set forth herein, complies with the requirements of the Major Facility Siting Act. All terms, conditions, and modifications set forth above are enforceable provisions of the certificate.

Dated this 30th day of March, 2012.

A handwritten signature in cursive script, appearing to read "Richard H. Opper", written over a horizontal line.

Richard H. Opper

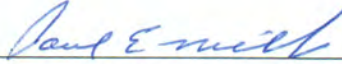
Director


Montana Department of Environmental Quality

AGREEMENT TO COMPLY

We, the undersigned Applicants for a Certificate of Compliance for the TransCanada Keystone Pipeline, LP for the Montana portion of the Keystone XL Pipeline, a 36-inch-diameter crude oil pipeline and associated facilities, agree, as a condition subsequent to the issuance of the Certificate, to comply fully and completely with the requirements of the Major Facility Siting Act set forth in Section 75-20-101, *et seq.*, MCA, and the conditions of the Certificate of Compliance.

TRANSCANADA KEYSTONE PIPELINE GP, LLC
in its own capacity and in its capacity as general partner
for and on behalf of **TRANSCANADA KEYSTONE**
PIPELINE, LP

By: 
Name: **PAUL E. MILLER**
Title: **President**
Dated:

By: 
Name: **Lee G. Hobbs**
Title: **Vice President**
Dated:

Attachment 2

Jeffery J. Oven
Mark L. Stermitz
Jeffrey M. Roth
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Peter C. Whitfield
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Washington, DC 20005
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Email: pwhitfield@sidley.com
jguerra@sidley.com

Counsel for TransCanada Keystone Pipeline, LP and TC Energy Corporation

**IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF MONTANA
GREAT FALLS DIVISION**

INDIGENOUS ENVIRONMENTAL
NETWORK and NORTH COAST RIVERS
ALLIANCE,

Plaintiffs,

vs.

PRESIDENT JOSEPH R. BIDEN, et al.,

Defendants,

TRANSCANADA KEYSTONE PIPELINE,
LP, a Delaware limited partnership, and TC
ENERGY CORPORATION, a Canadian
Public company,

Defendant-Intervenors.

CV 19-28-GF-BMM

**TC ENERGY CORPORATION
AND TRANSCANADA
KEYSTONE PIPELINE, LP'S
STATUS REPORT**

Defendants TransCanada Keystone Pipeline, L.P. and TC Energy Corporation (jointly “TC Energy”) respectfully submit this status report to provide the Court with an update concerning activities and decisions pertaining to the Keystone XL Pipeline Project (“Project”). This report addresses developments since TC Energy’s last status report of August 4, 2021, specifically TC Energy’s plans to remove the buried segment of the pipeline at the international border and to relinquish the right-of-way grant and temporary use permit acquired from the Bureau of Land Management (“BLM”) for the Project.

On August 31, 2021, the BLM approved TC Energy’s decommissioning plan and authorized removal of the buried pipeline pursuant to the decommissioning plan and additional stipulations imposed by BLM. *See* Attachment A. Additionally, on September 2, 2021, BLM approved TC Energy’s request to relinquish its right-of-way and temporary use permit over federal lands beyond the segment of land at the international border. *See* Attachment B.

On September 3, 2021, the Montana Department of Environmental Quality also approved TC Energy’s decommissioning plan. *See* Attachment C. Following this approval, TC Energy engaged a contractor to perform the work.

TC Energy plans to begin ground-disturbing activities on September 22, 2021, and to complete removal of the pipeline and restoration of the land in

accordance with the decommissioning plan and BLM stipulations in November 2021.

When this removal and restoration work is completed, TC Energy will relinquish to BLM the last portion of its right-of-way over the land at the international border.

Dated: September 17, 2021

Respectfully Submitted,

CROWLEY FLECK PLLP

SIDLEY AUSTIN LLP

/s/ Jeffery J. Oven

/s/ Peter C. Whitfield

Jeffery J. Oven

Peter C. Whitfield

Mark L. Stermitz

Joseph R. Guerra

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jroth@crowleyfleck.com

Counsel for TransCanada Keystone Pipeline LP and TC Energy Corporation

CERTIFICATE OF COMPLIANCE

Pursuant to Local Rule 7.1(d)(2)(E), I certify that this filing contains 317 words, excluding the caption and certificates of service and compliance.

/s/ Jeffery J. Oven
Jeffery J. Oven

CERTIFICATE OF SERVICE

I hereby certify that I electronically served today a copy of the foregoing by using the Court's CM/ECF system on all counsel of record.

/s/ Jeffery J. Oven
Jeffery J. Oven

ATTACHMENT A



United States Department of the Interior



BUREAU OF LAND MANAGEMENT
Miles City Field Office
111 Garryowen Road
Miles City, Montana 59301
<http://www.blm.gov/montana-dakotas>

August 31, 2021

Re. 2880 (MTC02200)
MTM-98191
MTM-98191-01

CERTIFIED MAIL NO. 70180360000228207783
RETURN RECEIPT REQUESTED

Meera Kothari, Project VP – Liquids Projects
TCE Energy / TransCanada Keystone Pipeline LP
700 Louisiana St, Ste 1300
Houston, TX 77002-2700

Dear Ms. Kothari:

On August 25, 2021, the Bureau of Land Management (BLM), Miles City Field Office received the Decommissioning Plan (DP) for the International Border Crossing (IBC) segment of the pipeline. On August 26, we received your request to relinquish right-of-way (ROW) grant MTM-98191 and temporary use permit (TUP) MTM-98191-01.

Removal of the IBC segment is authorized subject to the provision of the DP and the following stipulations:

1. Provide to the BLM Authorized Officer, a copy of project approval/authorization from Montana Department of Environmental Quality prior to initiation of decommissioning activities.
2. Any additional soil needed to fill the pipeline void may not be borrowed from BLM lands.
3. Notify Northern Border Pipeline and BLM tenants (Appendix E of IBC Notice to Proceed, February 20, 2020) no less than 10 days prior to decommissioning activities.
4. Adhere to the Applicable BLM Special Stipulations (Appendix B) of the ROW grant/TUP signed February 7, 2020.
5. Follow the BLM construction and reclamation unit specifications for glaciated plains (Unit Code BLM-GP) found in Appendix F of the POD.
6. Ensure environmental inspection contractors are on-site during decommissioning activities.

Schedule a post-stabilization and reclamation on-site inspection with the BLM Authorized Officer, or other appropriate BLM representative(s) at least 10 days in advance.

This authorization only applies to decommissioning and reclamation activities as proposed in the IBC DP submitted on August 25. The BLM has begun to process your relinquish request on the Federal lands for ROW MTM-98191, TUP MTM-98191-01 and TUP MTM-98191-02 that are excluded from the IBC decommission work. The BLM will notify TransCanada when the relinquishment of those lands are complete.

If you have any additional questions, please contact Kathy Tribby, at (406)654-5124 or kttribby@blm.gov.

Sincerely,



Eric Lepisto
Field Manager
Miles City Field Office

Cc:

James P White, Dir, US Regulatory Law – Liquids – CERTIFIED NO. 70180360000228207776
TransCanada Keystone Pipeline LP
1250 Eye St NW, Ste 225
Washington, DC 20005

Jon Schmidt, VP Env & Reg Svcs – CERTIFIED NO. 70180360000228207769
EXP Energy Services / TransCanada Keystone Pipeline LP
2639 N Monroe St, Bldg C
Tallahassee, FL 32303

Tom Darrington, Field Manager – EMAIL TRANSMISSION
Malta Field Office

Mark Albers, District Manager – EMAIL TRANSMISSION
North Central Montana District Office

Scott Haight, District Manager – EMAIL TRANSMISSION
Eastern Montana/Dakotas District Office

ATTACHMENT B



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Miles City Field Office
111 Garryowen Road
Miles City, Montana 59301
<http://www.blm.gov/montana-dakotas>



SEP 02 2021

CERTIFIED MAIL NO. 701803600000228207714
RETURN RECEIPT REQUESTED

DECISION

TransCanada Keystone Pipeline, LP	:	Partial Relinquishment of Crude Oil
Attention: Meera Kothari	:	Pipeline Right-of-Way Grant
700 Louisiana Street, Suite 1300	:	MTM-98191 and Temporary Use Permit
Houston, Texas 77002-2700	:	MTM-98191-01 in Montana, P.M.M.

Partial Relinquishment Approved

On August 25, 2021, the Bureau of Land Management (BLM), Miles City Field Office received a relinquishment request from TransCanada Keystone Pipeline, LP. The request is for a partial relinquishment of their crude oil right-of-way (ROW) MTM-98191 and temporary use permit (TUP) MTM-98191-01. This ROW and TUP are located in five counties in Eastern Montana. The ROW and TUP were issued on February 7, 2020 and were issued under the authority of Section 28 of the Mineral Leasing Act of 1920, as amended (30 U.S.C. 185). No reclamation is required for the portions of the ROW and the TUP that were relinquished as the pipeline was never constructed in those areas. In accordance with Title 43 Code of Federal Regulation (CFR) 2885.21, any rental payments made for this project are nonrefundable; therefore, no refunds will be processed for this relinquishment. The request to relinquish portions of the ROW and the TUP are hereby approved and our records have been noted.

The following Federal lands will be retained in the ROW MTM-98191 and the TUP MTM-98191-01: T. 37 N., R.32 R., section 5, Lots 2-3, S½NE¼, E½SE¼ in Phillips County, Montana, P.M.M. These lands will still be covered by the stipulations in the ROW MTM-98191 and the TUP MTM-98191-01. After the decommission and removal of the pipeline, reclamation needs to be completed and approved before the ROW and TUP can be completely relinquished and closed. The ROW rental will be billed for January 1, 2022.

This decision may be appealed to the Interior Board of Land appeals, Office of the Secretary, in accordance with the regulations contained in 43 CFR, Part 4 and the enclosed Form 1842-1. If an appeal is taken, your notice of appeal must be filed in this office (at the above address) within 30 days from receipt of this decision. The appellant has the burden of showing that the decision appealed from is in error.

If you wish to file a petition pursuant to regulation 43 CFR 4.21 (58 FR 4939, January 19, 1993) or 43 CFR 2881.10, for a stay of the effectiveness of this decision during the time that your appeal is being reviewed by IBLA, the petition for a stay must accompany your notice of appeal. A petition for a stay is required to show sufficient justification based on the standards listed below. Copies of the

notice of appeal and petition for a stay must also be submitted to each party named in this decision and to IBLA and to the appropriate office of the Solicitor (see 43 CFR 4.413) at the same time the original documents are filed with this office. If you request a stay, you have the burden of proof in demonstrating that a stay should be granted.

Standards for obtaining a Stay

Except as otherwise provided for by law or other pertinent regulations, a petition for a stay of a decision pending appeal shall show sufficient justification based on the following standards:

1. The relative harm to the parties if the stay is granted or denied,
2. The likelihood of the appellant's success on the merits,
3. The likelihood of immediate and irreparable harm if the stay is not granted, and
4. Whether the public interest favors granting the stay.

If you have any questions, please contact Dalice Landers, Realty Specialist, at (406) 233-2836 or dlanders@blm.gov.

Eric D. Lepisto

Eric D. Lepisto
Field Manager
Miles City Field Office

Enclosure

CC:

James P. White, U.S. Regulatory Law – Liquids
TransCanada Keystone Pipeline, LP
1250 Eye Street NW, Suite 225
Washington, DC 20005

Certified No.
70180360000228207721

Jon Schmidt, VP Env and Reg Services
EXP Energy Services/TransCanada Keystone Pipeline, LP
2639 North Monroe Street, Building C
Tallahassee, FL 32303

Certified No.
70180360000228207738

Darrin McMurray
U. S. Army Corps of Engineers
301 East Kansas Avenue
Fort Peck, MT 59248

Certified No.
70180360000228207745

ATTACHMENT C

From: Jones, Craig <crajones@mt.gov>
Sent: Friday, September 03, 2021 5:26 PM
To: Michael Schmaltz; Meera Kothari; Jim White; John Muehlhausen; Jon Schmidt
Cc: Tim Drake; Stephanie Pesek; clarenceruhland@hotmail.com; Strait, James
Subject: [EXTERNAL] MT DEQ's Approval of KXL's Decommissioning IP

EXTERNAL EMAIL: PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe. If this email looks suspicious, report it.

Keystone staff,

This email serves as Montana DEQ's approval of Keystone's Pipeline and Facility Decommissioning Implementation Plan, dated August 16, 2021. Then subsequently supplemented with the Responses to Comments for Decommissioning IP, dated 8/31/21 and email of J. Schmidt to C. Jones, dated 9/3/21.

Please notify MDEQ and MDEQ's on-site inspector, Clarence Ruhland, of the kickoff meeting and location.

Thanks.

Craig Jones

MEPA/MFSA Coordinator

Office 406-444-0514 **Cell Phone:** 406-465-1168

Mailing Address: PO Box 200901, Helena, MT 59620-0901

